

GenCore version 4.5  
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## OM nucleic - nucleic search, using sw model

Run on: June 16, 2000, 08:52:43 ; Search time 374.18 Seconds

(without alignments)

10074.554 Million cell updates/sec

Title: US-08-852-495C-1\_COPY\_140000\_169000  
Perfect score: 29001  
Sequence: 1 CCCTCCAAATCCCATATGCAC.....TGTTATCACAGAAAGTTACC 29001  
Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 230463 seqs, 64992525 residues

Total number of hits satisfying chosen parameters: 374504

Minimum DB seq length: 10  
Maximum DB seq length: 110Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database : Issued\_Patents\_NA.\*  
1: /cgpn2\_6/prodata/1/ina/5B.COMB.seq:/\*  
2: /cgpn2\_6/prodata/1/ina/5B.COMB.seq:/\*  
3: /cgpn2\_6/prodata/1/ina/5C.COMB.seq:/\*  
4: /cgpn2\_6/prodata/1/ina/5D.COMB.seq:/\*  
5: /cgpn2\_6/prodata/1/ina/6.COMB.seq:/\*  
6: /cgpn2\_6/prodata/1/ina/pCfUS.COMB.seq:/\*  
7: /cgpn2\_6/prodata/1/ina/backfiles1.seq:/\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	76.8	0.3	105	4	US-08-481-658B-65
C 2	76.8	0.3	105	4	US-08-477-504A-65
C 3	76.8	0.3	105	4	US-08-486-756A-65
C 4	76.8	0.3	105	4	US-08-485-802B-65
C 5	76.8	0.3	105	5	US-08-787-739-65
C 6	71.2	0.2	105	4	US-08-481-658B-65
C 7	71.2	0.2	105	4	US-08-477-504A-65
C 8	71.2	0.2	105	4	US-08-486-756A-65
C 9	71.2	0.2	105	4	US-08-485-802B-65
C 10	65.4	0.2	105	5	US-08-787-739-65
C 11	65.4	0.2	84	3	US-08-454-557C-91
C 12	65.4	0.2	84	4	US-08-340-426D-91
C 13	65.4	0.2	84	4	US-08-450-673C-91
C 14	65.4	0.2	84	6	PCT-US95-1111A-91
C 15	60.4	0.2	78	3	US-08-454-557C-70
C 16	60.4	0.2	78	4	US-08-340-426D-70
C 17	60.4	0.2	78	6	PCT-US95-1711A-70
C 18	60.4	0.2	78	6	PCT-US95-1711A-70
C 19	57	0.2	76	3	US-08-454-557C-69
C 20	57	0.2	76	4	US-08-340-426D-69
C 21	57	0.2	76	4	US-08-450-673C-69
C 22	57	0.2	76	6	PCT-US95-1711A-69
C 23	56	0.2	85	3	US-08-454-557C-92
C 24	56	0.2	85	4	US-08-340-426D-92
C 25	56	0.2	85	4	US-08-450-673C-92
C 26	56	0.2	85	6	PCT-US95-1711A-92
C 27	55.6	0.2	78	3	US-08-454-557C-70

## ALIGNMENTS

C 28	55.6	0.2	78	4	US-08-340-426D-70	Sequence 70, Appl
C 29	55.6	0.2	78	4	US-08-450-673C-70	Sequence 70, Appl
C 30	55.6	0.2	78	6	PCT-US95-1711A-70	Sequence 57, Appl
C 31	55.2	0.2	60	3	US-08-454-557C-57	Sequence 57, Appl
C 32	55.2	0.2	60	4	US-08-340-426D-57	Sequence 57, Appl
C 33	55.2	0.2	60	4	PCT-US95-1711A-91	Sequence 57, Appl
C 34	55.2	0.2	60	6	PCT-US95-1711A-57	Sequence 57, Appl
C 35	55	0.2	84	3	US-08-454-557C-91	Sequence 91, Appl
C 36	55	0.2	84	4	US-08-340-426D-91	Sequence 91, Appl
C 37	55	0.2	84	4	US-08-450-673C-91	Sequence 91, Appl
C 38	55	0.2	84	6	PCT-US95-1711A-91	Sequence 91, Appl
C 39	53.2	0.2	83	4	US-08-481-658B-66	Sequence 66, Appl
C 40	53.2	0.2	83	4	US-08-477-504A-66	Sequence 66, Appl
C 41	53.2	0.2	83	4	US-08-486-756A-66	Sequence 66, Appl
C 42	53.2	0.2	83	4	US-08-462-662B-66	Sequence 66, Appl
C 43	53.2	0.2	83	5	US-08-787-739-66	Sequence 66, Appl
C 44	50	0.2	76	3	US-08-454-557C-69	Sequence 69, Appl
C 45	50	0.2	76	4	US-08-340-426D-69	Sequence 69, Appl



CITY: Tiburon  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94920

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, version #1.30 (EPO)

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/485, 862B  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/477, 504  
 FILING DATE: 07-JUN-1995  
 APPLICATION NUMBER: US 08/260, 190  
 FILING DATE: 15-JUN-1994

ATTORNEY/AGENT INFORMATION:  
 NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3D

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-431-2034  
 TELEFAX: 415-435-0727

INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOOTHEICAL: NO  
 ANTI SENSE: NO

US-08-485-862B-65

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RESULT 5  
 Query Match 0.3%; Score 76.8; DB 4; Length 105;  
 Best Local Similarity 83.7%; Pred. No. 4e-07; Mismatches 17; Indels 0; Gaps 0;  
 Matches 87; Conservative 0; MisMatches 17; Indels 0; Gaps 0;

Qy 24042 ATCCAGCACTTGGGAGGTGAGGAGGGTACAGAGGATCAGACCATC 24101  
 Db 105 ATCCAGCACTTGGGAGGTGAGGAGGGTACAGAGGATCAGACCATC 46

Qy 24102 CTGGCCACAGCTGAACCCGTCCTACTAAATCACAAA 24145  
 Db 45 CTGGCCACATGGTGAACCCGTCCTACTAAAGTGAAAAA 2

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RESULT 5  
 Sequence 65, Application US/08787739  
 ;  
 ; Paten No. 6027887

GENERAL INFORMATION:  
 APPLICANT: Zavada, Jan  
 APPLICANT: Pastorekova, Silvia  
 TITLE OF INVENTION: MN Gene and Protein  
 NUMBER OF SEQUENCES: 96

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Leona L. Lauder  
 STREET: 369 Pine Street, Suite 610  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94104

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

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RESULT 6  
 US-08-81-658B-65  
 ; Sequence 65, Application US/08481658B  
 ; PATENT NO. 5955075  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Zavada, Jan  
 ; APPLICANT: Pastorekova, Silvia  
 ; TITLE OF INVENTION: MN Gene and Protein  
 ; NUMBER OF SEQUENCES: 86  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Leona L. Lauder  
 ; STREET: 6 Mariposa Court  
 ; CITY: Tiburon  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94920

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, version #1.30 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/481,558B  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 424  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/260,190  
 FILING DATE: 15-JUN-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3E  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-435-2034  
 TELEFAX: 415-435-0727  
 INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 ; US-08-481-558B-65

Query Match 0.2%; Score 71.2; DB 4; Length 105;  
 Best Local Similarity 85.8%; Pred. No. 5.4e-06; Mismatches 13; Indels 2; Gaps 1;  
 Matches 91; Conservative 0; Mismatches 13; Indels 2; Gaps 1;

Qy 16710 TTTTGTATTTAGAGATAGGGTTCACAACTGCTGCCAGGCTGCTCAACTCC 16769  
 Db 2 TTTTACATCTTAGAGACAGGGTTTACCATATTGCCAGGCCTGCTCAACTCC 61

Qy 16770 TGCCCTCAAGTGTATCCTCTCGCTCGCCCTCCAAAGTGTCTGGAT 16815  
 Db 62 TGACCT-TGTGATCCACCAAGCTGGCTCCAAAGTGTCTGGAT 105

RESULT 7  
 US-08-477-504A-65  
 Sequence 65, Application US/08477504A  
 ; Patent No. 598171  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Zavada, Jan  
 ; APPLICANT: Pastorekova, Silvia  
 ; TITLE OF INVENTION: MN Gene and Protein  
 ; NUMBER OF SEQUENCES: 86  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Leona L. Lauder  
 ; STREET: 6 Mariposa Court  
 ; CITY: Tiburon  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94920

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/486,756A  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 424  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/260,190  
 FILING DATE: 15-JUN-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3C  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-435-2034  
 TELEFAX: 415-435-0727  
 INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear

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; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-485-756A-65

Query Match          0.2%; Score 71.2; DB 4; Length 105;
Best Local Similarity 85.8%; Pred. No. 5.4e-06;
Matches 91; Conservative 0; Mismatches 13; Indels 2; Gaps 1;

Db 2 TTTTACATCTTAGAGACAGGTTTCACATCTGGCCAGGCTGGHCTCAACTCC 16769
Qy 16770 TGCCCTCAASGTGATCTCCCTGCCCTGGCCTCCAAATGCTGGAT 16115
Db 62 TGACCT--TGATCCACCAACCTCGCCAGCTGCCAACAGTGCCTGGAT 105

RESULT 9
US-08-485-862B-65
; Sequence 65, Application US/08485862B
; Patent No. 5389838
; GENERAL INFORMATION:
; APPLICANT: Pavada, Jan
; ADDRESSER: Pastorekova, Silvia
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; APPLICANT: Pavada, Jan
; ADDRESSER: Pastorekova, Silvia
; CITY: Tiburon
; STATE: California
; COUNTRY: USA
; ZIP: 94920
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patientin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,862B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/477,504
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 105 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-485-862B-65

RESULT 10
US-08-787-739-65
; Sequence 65, Application US/08787739
; Patent No. 6021887
; GENERAL INFORMATION:
; APPLICANT: Pavada, Jan
; ADDRESSER: Pastorekova, Silvia
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patientin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US 08/787,739
FILING DATE: 24-JAN-1997
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/486,756
FILING DATE: 07-JUN-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/477,504
FILING DATE: 07-JUN-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/481,658
FILING DATE: 07-JUN-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/485,862
FILING DATE: 07-JUN-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/485,863
FILING DATE: 07 JUN-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/487,077
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 105 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-787-739-65

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Query Match          0.2%; Score 71.2; DB 4; Length 105;
Best Local Similarity 85.8%; Pred. No. 5.4e-06;
Matches 91; Conservative 0; Mismatches 13; Indels 2; Gaps 1;

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Query Match 0.2%; Score 71.2; DB 5; Length 105;  
 Best Local Similarity 85.8%; Pred. No. 5.4e-06;  
 Matches 91; Conservative 0; Mismatches 13; Indels 2; Gaps 1;

Qy 16710 TTTTGTATTTAGAGATAGGGTTACAGTCACAAAGCTGCCAGGCTGCCTCAACTCC 16769  
 Db 2 TTTPACATCTTAGTAGAGACAGGGTTACCATATGCCAGGCTGCCTCAACTCC 61

Qy 16770 TGCCCTCAAGTGACCTCCGCCCTGGCCGCCAGGCTGCCTCAACTCC 16815  
 Db 62 TGACCT--TGATGCCACCGCCTGGCCGCCAGGCTGCCTCAACTCC 105

RESULT 11  
 US-08-454-557C-91/c  
 ; Sequence 91, Application US/08454557C  
 ; Patent No. 5830670

GENERAL INFORMATION:  
 APPLICANT: de la Monte, Suzanne  
 ADDRESSER: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3934

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/340,426D  
 FILING DATE: 14-Nov-1994  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REGISTRATION NUMBER: 36,203  
 REFERENCE/DOCKET NUMBER: 0609.3840002  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 TELEFAX: (202) 371-2540  
 INFORMATION FOR SEQ ID NO: 91:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both

US-08-340-426D-91

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/454,557C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REGISTRATION NUMBER: 36,203  
 REFERENCE/DOCKET NUMBER: 0609.3840003  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 INFORMATION FOR SEQ ID NO: 91:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both

US-08-454-557C-91

RESULT 13  
 US-08-450-673C-91/c  
 ; Sequence 91, Application US/08450673C  
 ; Patent No. 5548888

GENERAL INFORMATION:  
 APPLICANT: de la Monte, Suzanne  
 ADDRESSER: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3934

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25

Query Match 0.2%; Score 65.4; DB 3; Length 84;  
 Best Local Similarity 86.7%; Pred. No. 7.4e-05;  
 Matches 72; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 24032 CACGCTGTATACTCCAGACATTGGAGGGTGAATGGGAAACAGGAGTCAGGAGT 24091  
 Db 83 CACGCTGTATACTCCAGACATTGGAGGGTGAATGGGAAACAGGAGTCAGGAGT 24

Qy 24092 CAAGACCATCTGGCACATGG 24114  
 Db 23 CGAACACCAGCTGATGACAGGG 1

RESULT 13  
 US-08-450-673C-91/c  
 ; Sequence 91, Application US/08450673C  
 ; Patent No. 5548888

GENERAL INFORMATION:  
 APPLICANT: de la Monte, Suzanne  
 ADDRESSER: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3934

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25

Query Match 0.2%; Score 65.4; DB 3; Length 84;  
 Best Local Similarity 86.7%; Pred. No. 7.4e-05;  
 Matches 72; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 24032 CACGCTGTATACTCCAGACATTGGAGGGTGAATGGGAAACAGGAGTCAGGAGT 24091  
 Db 83 CACGCTGTATACTCCAGACATTGGAGGGTGAATGGGAAACAGGAGTCAGGAGT 24

Qy 24092 CAAGACCATCTGGCACATGG 24114  
 Db 23 CGAACACCAGCTGATGACAGGG 1

RESULT 12  
 US-08-340-426D-91/c  
 ; Sequence 91, Application US/08340426D  
 ; Patent No. 5548634

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/50,673C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REFERENCE/DOCKET NUMBER: 36-203  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 TELFAX: (202) 371-2540  
 INFORMATION FOR SEQ ID NO: 91:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLogy: both  
 US-08-450-673C-91

RESULT 14  
 PCT-US95-1711A-91/c  
 Sequence 91, Application PC/US951711A  
 GENERAL INFORMATION:  
 APPLICANT: de la Monte, Suzanne  
 TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection of Alzheimer's Disease  
 NUMBER OF SEQUENCES: 121  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3334  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/454,557C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REFERENCE/DOCKET NUMBER: 36-203  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 TELFAX: (202) 371-2540  
 INFORMATION FOR SEQ ID NO: 70:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 78 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLogy: both  
 US-08-454-557C-70

Query Match 0.2%; Score 65.4; DB 4; Length 84;  
 Best Local Similarity 86.7%; Pred. No. 7.4e-05;  
 Matches 72; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 24032 CACGCCCTGTAATCCCAAGCACTTGGGAGGTGAGGTGGTGAATCACGAGGTCAAGGAGTT 24091  
 Db 83 CACGCCCTGTAATCCCAAGCACTTGGGAGGTGAGGTCAAGGAGTT 24  
 QY 24092 CAAGACCACATCCGGCCAACATGG 24114  
 Db 23 CGACACCAGCCCTGATGACATGG 1

RESULT 15  
 US-08-454-557C-70  
 Sequence 70, Application US/08454557C  
 GENERAL INFORMATION:  
 APPLICANT: de la Monte, Suzanne  
 TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection of Alzheimer's Disease  
 NUMBER OF SEQUENCES: 121  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3334  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/454,557C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REFERENCE/DOCKET NUMBER: 36-203  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 TELFAX: (202) 371-2540  
 INFORMATION FOR SEQ ID NO: 70:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 78 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLogy: both  
 US-08-454-557C-70

Query Match 0.2%; Score 60.4; DB 3; Length 78;  
 Best Local Similarity 85.9%; Pred. No. 0.0074;  
 Matches 67; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 9486 ACCATGCCGGCTAAATTGTTATTTAGAGAGACAGGTTCAACAGTTGGCCAGG 9545  
 Db 1 ACACACCCCAACTAAATTGTTATTTAGAGAGACAGGTTCAACAGTTGGCCAGG 60  
 QY 9546 CTGGTGTGAACTCCCTGA 9563  
 Db 61 CTGGTGTGAACTCCCTGA 78

SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both

Wed Jun 21 14:43:23 2000

us-08-852-495c-1\_copy\_140000\_169000.rni

Page 8

Search completed: June 16, 2000, 20:15:34  
Job time: 199264 sec

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GenCore version 4.5

OM nucleic - nucleic search, using sw model  
Run on: June 16, 2000, 20:09:08 ; search time 29137.4 Seconds  
(without alignments)  
-968.237 Million cell updates/sec

Title: US-08-852-495c-1\_COPY\_168000\_197000  
Perfect score: 29001  
Sequence: 1 TGTGTTAGGAAAAAAAGCA.....TAGATAAACCGTTGTCCTT 29001

Searched: IDENTITY\_NUC

Gapext 1.0 , Gapext 1.0

Scoring table: 882769 seqs, -486395729 residues  
Total number of hits satisfying chosen parameters: 370290  
Minimum DB seq length: 10  
Maximum DB seq length: 110

Post-processing: Minimum Match 0% summaries

Database : GenEmbl:  
1: gb\_bab1: \*  
2: gb\_bab2: \*  
3: gb\_on: \*  
4: gb\_ov: \*  
5: gb\_p13: \*  
6: gb\_ph: \*  
7: gb\_p11: \*  
8: gb\_p12: \*  
9: gb\_pr1: \*  
10: gb\_pr2: \*  
11: gb\_p3: \*  
12: gb\_r0: \*  
13: gb\_sts: \*  
14: gb\_sy: \*  
15: gb\_un: \*  
16: gb\_v1: \*  
17: em\_fun: \*  
18: em\_hum1: \*  
19: em\_hum2: \*  
20: em\_in: \*  
21: em\_on: \*  
22: em\_or: \*  
23: em\_sy: \*  
24: em\_pot: \*  
25: em\_ph: \*  
26: em\_pl: \*  
27: em\_ro: \*  
28: em\_sss: \*  
29: em\_sy: \*  
30: em\_un: \*  
31: em\_v1: \*  
32: gb\_htg1: \*  
33: gb\_htg2: \*  
34: gb\_ln1: \*  
35: gb\_ln2: \*  
36: em\_bol1: \*  
37: em\_ba2: \*  
38: em\_hum3: \*  
39: em\_hum4: \*  
40: gb\_p14: \*  
41: gb\_hig3: \*  
42: gb\_hig4: \*  
43: gb\_hig5: \*  
44: gb\_htg6: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match Length	DB ID	Description
SUMMARIES				
c 1	95.2	0.3	108 HSDLRN2	X05250 Human LDL-r
c 2	92	0.3	108 HSDLRN2	X05250 Human LDL-r
c 3	85	0.3	107 HUMALEC162	M87924 Human carci
c 4	84.6	0.3	108 HSDLR01	X05249 Human LDL-r
c 5	84.6	0.3	108 HSDLR02	X05249 Human LDL-r
c 6	83	0.3	108 HSDLR1	X05251 Human LDL-r
c 7	83	0.3	108 HSDLR02	X05251 Human LDL-r
c 8	82.2	0.3	103 HUMALEC221	M87896 Human carci
c 9	81	0.3	108 HSU67803	U67803 Human small
c 10	81	0.3	108 HSU67808	U67808 Human small
c 11	79.4	0.3	103 HS8ICBR	X57789 Human seque
c 12	78	0.3	107 HUMALEC162	M87924 Human carci
c 13	77.6	0.3	103 HUMALEC221	M87896 Human carci
c 14	77.2	0.3	110 HSU67807	U67807 Human small
c 15	76.6	0.3	108 HSUDL112	X05248 Human LDL-r
c 16	76.6	0.3	110 HSU67803	U67803 Human small
c 17	75.2	0.3	97 HSUDLRA2	M14180 Human low d
c 18	74.4	0.3	103 HS8ICBR	X57789 Human seque
c 19	74.4	0.3	104 HUMALEC272	M87899 Human carci
c 20	74.6	0.3	108 HSU67804	U67804 Human small
c 21	73.4	0.3	91 HSUDL112	X05244 Human SRS U
c 22	72.4	0.2	91 HSU67804A	L30244 Human SRS U
c 23	72.4	0.2	108 HSUDL112	X05248 Human LDL-r
c 24	72.4	0.2	110 HSU67809	M87900 Human carci
c 25	72	0.2	97 HSUDLRA2	M14180 Human low d
c 26	72.2	0.2	108 HSUDL00M5	D16965 Human Hepl2
c 27	71.4	0.2	107 HSU67806	U67806 Human small
c 28	71.4	0.2	108 C43535	G43535 WLRF-2393-S
c 29	70.8	0.2	90 HSUDLRTL	K03555 Human low d
c 30	70.8	0.2	100 HSU6791A	L31259 Human SRS U
c 31	70.2	0.2	97 HSUDLRA2	M14179 Human famili
c 32	70.4	0.2	106 G32743	G32743 A009P31 Hum
c 33	69.4	0.2	108 G43535	G43535 WLRF-2393-S
c 34	68.6	0.2	84 AR051521	AR051521 Sequence
c 35	68.4	0.2	95 HSUDL00B	L30176 Human SRS U
c 36	68.2	0.2	99 HSU6792A	L31306 Human SRS U
c 37	67.8	0.2	108 HSUDL00M5	D16965 Human Hepl2
c 38	67.4	0.2	79 S73203	S73203 All-1 (tand
c 39	67.4	0.2	102 G32906	G32906 A009W09 Hum
c 40	66.8	0.2	95 HSSTHP1B	X66361 H.sapiens m
c 41	67	0.2	97 HSUDLRA2	M14179 Human famili
c 42	66	0.2	97 HSUDLRA1	M14178 Human low d
c 43	65.8	0.2	106 G32743	G32743 A009P31 Hum
c 44	64.8	0.2	79 S73203	S73203 All-1 (tand
c 45	65	0.2	99 HSUDL00A	L30306 Human SRS U

RESULT 1

HSLDRN2/c

LOCUS HSLDRN2 108 bp DNA PRI 20-MAY-1992

DEFINITION Human LDL-receptor gene intron 14 fragment (normal gene).

ACCESSION X0250

VERSION X0250.1 GI:34337

KEYWORDS Alu repetitive sequence; low density lipoprotein receptor.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 108)

AUTHORS Horsthemke, B., Beisiegel, U., Dunning, A., Havinga, J.R., Williamson, R. and Humphries, S.

TITLE Unequal crossing-over between two alu-repetitive DNA sequences in the low-density-lipoprotein receptor gene. A possible mechanism for the defect in a patient with familial hypercholesterolemia

JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)

MEDLINE 87161901

COMMENT See X0252 for deletion junction

Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.

FEATURES Source Location/Qualifiers

1. .108

/organism="Homo sapiens"

/db\_xref="taxon:9606"

1..108

/note="intron XIV fragment"

BASE COUNT 28 a 23 c 39 g 18 t

ORIGIN

Query Match 0.3%; Score 95.2; DB 10; Length 108;

Best Local Similarity 92.6%; Pred. No. 3e-06;

Matches 100; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Organism Homo sapiens

DEFINITION Human LDL-receptor gene intron 14 fragment (normal gene).

ACCESSION X0250

VERSION X0250.1 GI:34337

KEYWORDS Alu repetitive sequence; low density lipoprotein receptor.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 108)

AUTHORS Horsthemke, B., Beisiegel, U., Dunning, A., Havinga, J.R., Williamson, R. and Humphries, S.

TITLE Unequal crossing-over between two alu-repetitive DNA sequences in the low-density-lipoprotein receptor gene. A possible mechanism for the defect in a patient with familial hypercholesterolemia

JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)

MEDLINE 87161901

COMMENT See X0252 for deletion junction

Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.

FEATURES Source Location/Qualifiers

1. .108

/organism="Homo sapiens"

/db\_xref="taxon:9606"

1..108

/note="intron XIV fragment"

BASE COUNT 28 a 23 c 39 g 18 t

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RESULT 2

HSLDRN2

LOCUS HSLDRN2 108 bp DNA PRI 20-MAY-1992

DEFINITION Human LDL-receptor gene intron 14 fragment (normal gene).

ACCESSION X0250

VERSION X0250.1 GI:34337

KEYWORDS Alu repetitive sequence; low density lipoprotein receptor.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 108)

AUTHORS Horsthemke, B., Beisiegel, U., Dunning, A., Havinga, J.R., Williamson, R. and Humphries, S.

TITLE Unequal crossing-over between two alu-repetitive DNA sequences in the low-density-lipoprotein-receptor gene. A possible mechanism for the defect in a patient with familial hypercholesterolemia

JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)

MEDLINE 87161901

COMMENT See X0252 for deletion junction

Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.

FEATURES Source Location/Qualifiers

1. .108

/organism="Homo sapiens"

/db\_xref="taxon:9606"

1..108

/note="intron XIV fragment"

BASE COUNT

ORIGIN

Query Match 0.3%; Score 95.2; DB 10; Length 108;

Best Local Similarity 90.1%; Pred. No. 0.00014;

Matches 91; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Organism Homo sapiens

DEFINITION Human LDL-receptor gene intron 14 fragment (normal gene).

ACCESSION X0250

VERSION X0250.1 GI:34337

KEYWORDS Alu repetitive sequence; low density lipoprotein receptor.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 108)

AUTHORS Horsthemke, B., Beisiegel, U., Dunning, A., Havinga, J.R., Williamson, R. and Humphries, S.

TITLE Unequal crossing-over between two alu-repetitive DNA sequences in the low-density-lipoprotein receptor gene. A possible mechanism for the defect in a patient with familial hypercholesterolemia

JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)

MEDLINE 87161901

COMMENT See X0252 for deletion junction

Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.

FEATURES Source Location/Qualifiers

1. .108

/organism="Homo sapiens"

/db\_xref="taxon:9606"

1..108

/note="intron XIV fragment"

BASE COUNT

ORIGIN

Query Match 0.3%; Score 92; DB 10; Length 108;

Best Local Similarity 90.7%; Pred. No. 1e-05;

Matches 98; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Organism Homo sapiens

DEFINITION Human LDL-receptor mutated gene with intron 12 deletion Junction.

ACCESSION X05349

VERSION X05349.1 GI:34335

KEYWORDS Alu repetitive sequence; low density lipoprotein receptor.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 108)

AUTHORS Horsthemke, B., Beisiegel, U., Dunning, A., Havinga, J.R., Williamson, R. and Humphries, S.

TITLE Unequal crossing over between two alu-repetitive DNA sequences in the low-density-lipoprotein-receptor gene. A possible mechanism for

JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)  
 MEDLINE 87161901  
 COMMENT \*source: hypercholesterol aemia  
 See X05248 for corresponding normal gene sequence  
 In the defective LDL-receptor gene the deletion occurred between two  
 alu-repetitive sequences, that are in the same direction, the  
 deletion eliminates exons 13 and 14 and changes the reading frame  
 Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.

FEATURES source  
 misc\_feature  
 BASE COUNT 20 a 40 c 20 g 28 t  
 ORIGIN

RESULT 1.  
 LOCUS /organism="Homo sapiens"  
 DEFINITION /db\_xref="taxon:9606"  
 ACCESSION 1..108  
 VERSION /note="deletion Junction region intron 12/ intron 15"  
 KEYWORDS /cell\_type="blood leukocytes from a patient with familial"  
 ORGANISM

Query Match 0.3%; Score 84.6; DB 10; Length 108;  
 Best Local Similarity 86.9%; Pred. No. 0.00016;  
 Matches 93; Conservative 0; Mismatches 14; Indels 0; Gaps 0;  
 Authors Horsthemke, B., Beisiegel, U., Dunning, A., Ravinda, J.R.,  
 Williamson, R. and Humphries, S.  
 Title Unequal crossing-over between two alu-repetitive DNA sequences in  
 the low-density-lipoprotein-receptor gene. A possible mechanism for  
 the defect in a patient with familial hypercholesterolaemia  
 Eur. J. Biochem. 164 (1), 77-81 (1987)  
 JOURNAL  
 MEDLINE 87161901  
 COMMENT \*source: hypercholesterol aemia  
 See X05248 for corresponding normal gene sequence  
 In the defective LDL-receptor gene the deletion occurred between two  
 alu-repetitive sequences, that are in the same direction, the  
 deletion eliminates exons 13 and 14 and changes the reading frame  
 Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.

FEATURES source  
 misc\_feature  
 BASE COUNT 20 a 40 c 20 g 28 t  
 ORIGIN

RESULT 2.  
 LOCUS HSLLRD2  
 DEFINITION Human LDL-receptor mutated gene with intron 12 deletion Junction.  
 ACCESSION X05249  
 VERSION 1 GI:34335  
 KEYWORDS Alu repetitive sequence; low density lipoprotein receptor  
 SOURCE Homo sapiens  
 ORGANISM Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Butheria;  
 Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 108)  
 AUTHORS Horsthemke, B., Beisiegel, U., Dunning, A., Ravinda, J.R.,  
 Williamson, R. and Humphries, S.  
 TITLE Unequal crossing-over between two alu-repetitive DNA sequences in  
 the low-density-lipoprotein-receptor gene. A possible mechanism for  
 the defect in a patient with familial hypercholesterolaemia  
 Eur. J. Biochem. 164 (1), 77-81 (1987)  
 JOURNAL  
 MEDLINE 87161901  
 COMMENT \*source: hypercholesterol aemia  
 See X05248 for corresponding normal gene sequence  
 In the defective LDL-receptor gene the deletion occurred between two  
 alu-repetitive sequences, that are in the same direction, the  
 deletion eliminates exons 13 and 14 and changes the reading frame  
 Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.

FEATURES source  
 misc\_feature  
 BASE COUNT 20 a 40 c 20 g 28 t  
 ORIGIN

RESULT 3.  
 LOCUS HSLLRD2  
 DEFINITION Human LDL-receptor mutated gene with intron 14 deletion Junction.  
 ACCESSION X05251  
 VERSION 1 GI:34336  
 KEYWORDS Alu repetitive sequence; low density lipoprotein receptor  
 SOURCE Homo sapiens  
 ORGANISM Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Butheria;  
 Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 108)

FEATURES source  
 misc\_feature  
 BASE COUNT 20 a 40 c 20 g 20 t  
 ORIGIN

RESULT 4.  
 LOCUS HSLLRD2  
 DEFINITION Human LDL-receptor mutated gene with intron 14 deletion Junction.  
 ACCESSION X05251  
 VERSION 1 GI:34336  
 KEYWORDS Alu repetitive sequence; low density lipoprotein receptor  
 SOURCE Homo sapiens  
 ORGANISM Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Butheria;  
 Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 108)

FEATURES source  
 misc\_feature  
 BASE COUNT 20 a 40 c 20 g 20 t  
 ORIGIN

RESULT 5.  
 LOCUS HSLLRD2  
 DEFINITION Human LDL-receptor mutated gene with intron 14 deletion Junction.  
 ACCESSION X05251  
 VERSION 1 GI:34336  
 KEYWORDS Alu repetitive sequence; low density lipoprotein receptor  
 SOURCE Homo sapiens  
 ORGANISM Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Butheria;  
 Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 108)  
 AUTHORS Horsthemke, B., Beisiegel, U., Dunning, A., Ravinda, J.R.,  
 Williamson, R. and Humphries, S.  
 TITLE Unequal crossing-over between two alu-repetitive DNA sequences in  
 the low-density-lipoprotein-receptor gene. A possible mechanism for  
 the defect in a patient with familial hypercholesterolaemia  
 Eur. J. Biochem. 164 (1), 77-81 (1987)  
 JOURNAL  
 MEDLINE 87161901  
 COMMENT \*source: hypercholesterol aemia  
 See X05248 for corresponding normal gene sequence  
 In the defective LDL-receptor gene the deletion occurred between two  
 alu-repetitive sequences, that are in the same direction, the  
 deletion eliminates exons 13 and 14 and changes the reading frame  
 Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.

FEATURES source  
 misc\_feature  
 BASE COUNT 20 a 40 c 20 g 28 t  
 ORIGIN

RESULT 6.  
 LOCUS HSLLRD1  
 DEFINITION Human LDL-receptor mutated gene with intron 12 deletion Junction.  
 ACCESSION X05249.1  
 VERSION 1 GI:34335  
 KEYWORDS Alu repetitive sequence; low density lipoprotein receptor  
 SOURCE Homo sapiens  
 ORGANISM Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Butheria;  
 Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 108)  
 AUTHORS Horsthemke, B., Beisiegel, U., Dunning, A., Ravinda, J.R.,  
 Williamson, R. and Humphries, S.  
 TITLE Unequal crossing-over between two alu-repetitive DNA sequences in  
 the low-density-lipoprotein-receptor gene. A possible mechanism for  
 the defect in a patient with familial hypercholesterolaemia  
 Eur. J. Biochem. 164 (1), 77-81 (1987)  
 JOURNAL  
 MEDLINE 87161901  
 COMMENT \*source: hypercholesterol aemia  
 See X05248 for corresponding normal gene sequence  
 In the defective LDL-receptor gene the deletion occurred between two  
 alu-repetitive sequences, that are in the same direction, the  
 deletion eliminates exons 13 and 14 and changes the reading frame  
 Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.

FEATURES source  
 misc\_feature  
 BASE COUNT 20 a 40 c 20 g 28 t  
 ORIGIN

RESULT 7.  
 LOCUS HSLLRD2  
 DEFINITION Human LDL-receptor mutated gene with intron 14 deletion Junction.  
 ACCESSION X05251  
 VERSION 1 GI:34336  
 KEYWORDS Alu repetitive sequence; low density lipoprotein receptor  
 SOURCE Homo sapiens  
 ORGANISM Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Butheria;  
 Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 108)

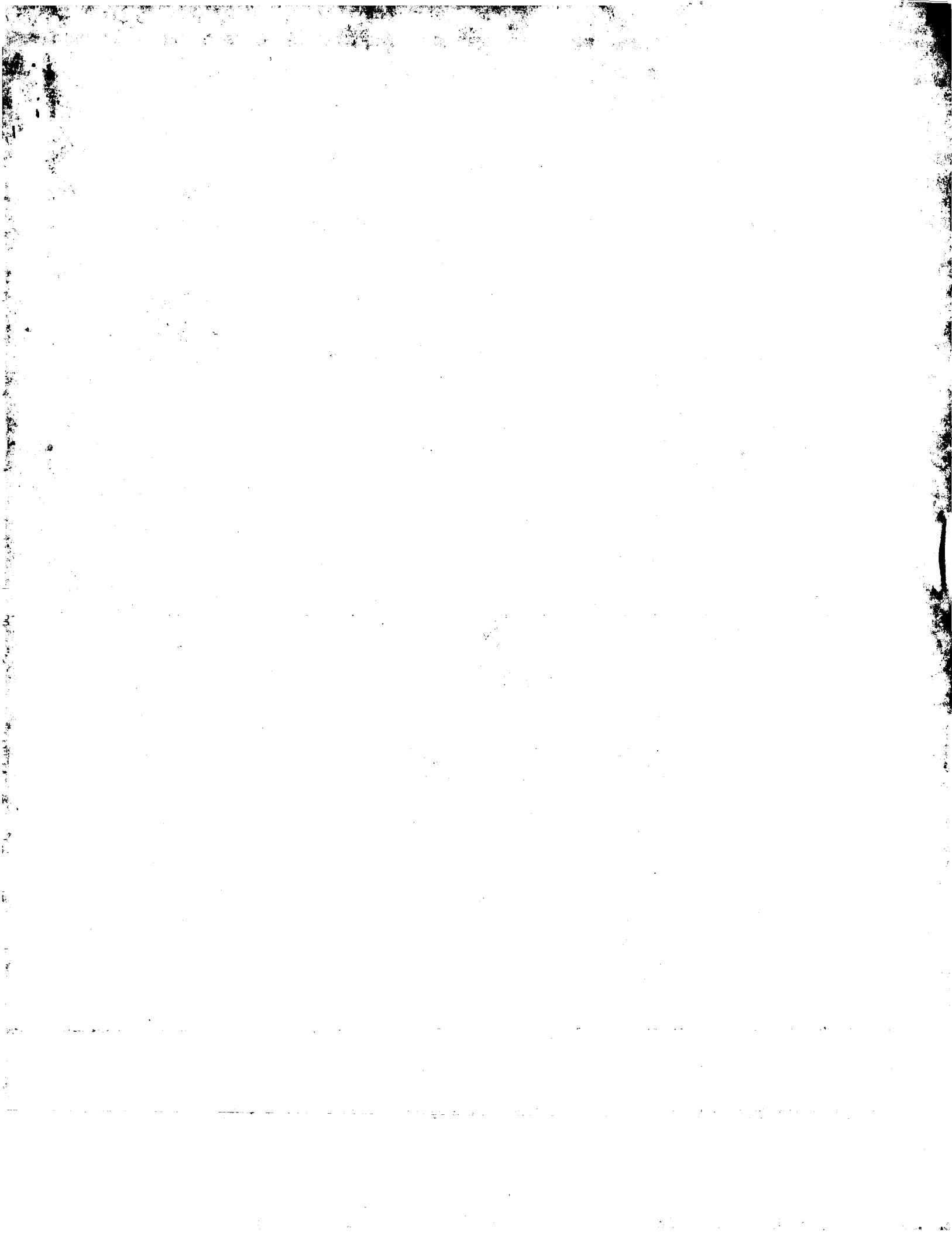
AUTHORS	Horsthemke, B., Beisiegel, U., Dunning, A., Hovinga, J.R., Williamson, R., and Humphries, S.
TITLE	Unequal crossing-over between two alu-repetitive DNA sequences in the low-density-lipoprotein-receptor gene. A possible mechanism for the defect in a patient with familial hypercholesterolemia
JOURNAL	Eur. J. Biochem. 164 (1), 77-81 (1987)
MEDLINE	87161901
FEATURES	*source: hypercholesterol aemia
COMMENT	See X05550 for corresponding normal gene sequence
	In the defective LDL-receptor gene, the deletion occurred between two alu-repetitive sequences, that are in the same direction, the deletion eliminates exons 13 and 14 and changes the reading frame of the resulting spliced mRNA.
	Data kindly reviewed (07-DEC-1987) by HUMPHRIES, S.
SOURCES	Location/Qualifiers 1. . 108
BASE COUNT	intron 28 a 20 c 40 g 20 t
RESULT	QY 16928 GCGAGAGATGCACTGAGATCGGCCACTGCATCCAG 16970
LOCUS	HSU67803 108 bp RNA
DEFINITION	Human small cytoplasmic Alu transcript.
ACCESSION	U67803
VERSION	U67803.1 GI:2289917
KEYWORDS	Alu.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	1. (bases 1 to 108), Shaikh, T.H., Roy, A.M., Kim, J., Batzer, M.A. and Deininger, P.L.
TITLE	cDNAs derived from primary and small cytoplasmic Alu (scAlu) transcripts
JOURNAL	J. Mol. Biol. 271 (2), 222-234 (1997)
REFERENCE	2. (bases 1 to 108), Shaikh, T.H., Kim, J., Batzer, M.A. and Deininger, P.L.
AUTHORS	Submitted (22-AUG-1996). Human Genetics and Molecular Biology, The Children's Hospital of Philadelphia, 1004 Abramson Research Center, 34th and Civic Center Blvd., Philadelphia, PA 19104, USA
BASE COUNT	intron 60 16903 GCAGGAGAACTGGACCCAGGAGCAGAGATTGAGTGA 16949
RESULT	QY 61 GCAAGGAAGAATGGTTGACCCAGGGAGCAGGGTGTCGGAGGCA 107
LOCUS	HUMALCE221 103 bp ss-RNA
DEFINITION	PRI Human carcinoma cell-derived Alu RNA transcript, clone CE221.
ACCESSION	M87896
VERSION	M87896.1 GI:174874
KEYWORDS	Alu repeat.
ORGANISM	Homo sapiens male embryo carcinoma cDNA to other RNA.
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	1. (bases 1 to 103), Sinnott, D., Richer, C., Deragon, J.-M. and Labuda, D.
TITLE	Alu RNA transscripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences
JOURNAL	J. Mol. Biol. (1992) In press
FEATURES	Location/Qualifiers 1. . 103
SOURCE	/organism="Homo sapiens" /db_xref="taxon:9606" /cell_line="Mera2D1" /dev_stage="embryo" /sex="male" /tissue_type="carcinoma"
BASE COUNT	intron 23 a 39 c 30 g 16 t
RESULT	QY 16737 GCTGTGAATCCACACTTGGGAGGCCAGGGAGCACATCAGGAGTCAGGATGCA 16796
LOCUS	HSU67808 108 bp RNA
DEFINITION	Human small cytoplasmic Alu transcript.
ACCESSION	U67808
VERSION	U67808.1 GI:2289922
KEYWORDS	Alu.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE	1. (bases 1 to 108), Shaikh, T.H., Roy, A.M., Kim, J., Batzer, M.A. and Deininger, P.L.
JOURNAL	J. Mol. Biol. 271 (2), 222-234 (1997)
MEDLINE	97145756
REFERENCE	2. (bases 1 to 108),
RESULT	QY 16868 ATCTGCCTGAGTCCCAGCTACTGGGACACTGAGCAGAGAACATCTGACCCAGGA 16927
LOCUS	HSU67808 108 bp RNA
DEFINITION	Human small cytoplasmic Alu transcript.
ACCESSION	U67808
VERSION	U67808.1 GI:2289922
KEYWORDS	Alu.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE	1. (bases 1 to 108), Shaikh, T.H., Roy, A.M., Kim, J., Batzer, M.A. and Deininger, P.L.
JOURNAL	J. Mol. Biol. 271 (2), 222-234 (1997)
MEDLINE	97145756
REFERENCE	2. (bases 1 to 108),
RESULT	QY 16868 ATCTGCCTGAGTCCCAGCTACTGGGACACTGAGCAGAGAACATCTGACCCAGGA 16927
LOCUS	HSU67808 108 bp RNA
DEFINITION	Human small cytoplasmic Alu transcript.
ACCESSION	U67808
VERSION	U67808.1 GI:2289922
KEYWORDS	Alu.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE	1. (bases 1 to 108), Shaikh, T.H., Roy, A.M., Kim, J., Batzer, M.A. and Deininger, P.L.
JOURNAL	J. Mol. Biol. 271 (2), 222-234 (1997)
MEDLINE	97145756
REFERENCE	2. (bases 1 to 108),

AUTHORS	Shaiikh,T.H., Kim,J., Batzer,M.A. and Deininger,P.L.
TITLE	Direct Submission
JOURNAL	Submitted (22-AUG-1995) Human Genetics and Molecular Biology, The Children's Hospital of Philadelphia, 104F Abramson Research Center, 34th and Civic Center Blvd., Philadelphia, PA 19104, USA
FEATURES	Location/Qualifiers
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BASE COUNT	22 a 37 c 28 g 21 t
ORIGIN	
RESULT 11	
HS81C8R/C	
LOCUS	HS81C8R 103 bp DNA STS
DEFINITION	Human sequence tagged site 81C8R DNA from 19q13.
ACCESSION	05-SEP-1991
VERSION	X57789.1 GI:23938
KEYWORDS	STS; myotonic dystrophy.
SOURCE	human.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Primates; Catarrhini; Hominoidea; Homo.
AUTHORS	Aldridge,F.L.
TITLE	Direct Submission
JOURNAL	Submitted (12-FEB-1991) F.L. Aldridge, ICI Pharmaceuticals, Alderley Park, Macclesfield, Cheshire, SK10 4TG, UK
REFERENCE	2 (bases 1 to 103)
AUTHORS	Butler,R., Riley,J.H., Ogilvie,D.J., Anand,R., Buxton,J., Davies,J., Johnson,K. and Markham,A.F.
TITLE	Two sequence-tagged sites defining the ends of a 380 kb YAC clone from 19q13
JOURNAL	Nucleic Acids Res. 19 (17), 4787 (1991)
MEDLINE	91167697
COMMENT	See also X57788 for STS 81C8L.
FEATURES	Location/Qualifiers
source	1..103 /organism="Homo sapiens" /db_xref="taxon:9606" /chromosome="19q13" /germline /clone_id="YAC library: ICI" /clone="81C8" /clone_id="YAC library: ICI"
BASE COUNT	29 a 28 c 23 g 22 t 1 others
ORIGIN	
RESULT 12	
HUMALCE162/C	
LOCUS	HUMALCE162 107 bp ss-RNA
DEFINITION	Human carcinoma cell-derived Alu RNA transcript,
ACCESSION	PRI clone CE162.
VERSION	M87524
KEYWORDS	Alu repeat.
SOURCE	Alu repeat.
ORGANISM	Homo sapiens male embryo carcinoma cDNA to other RNA.
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Primates; Catarrhini; Hominoidea; Homo. 1 (bases 1 to 107)
AUTHORS	Sinnett,D., Richer,C., Deragon,J.-M. and Labuda,D.
TITLE	Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences
JOURNAL	J. Mol. Biol. (1992) In press
FEATURES	Location/Qualifiers
source	1..107 /organism="Homo sapiens" /db_xref="taxon:9606" /cell_line="NTera2D1" /dev_stage="embryo" /sex="male" /tissue_type="carcinoma"
BASE COUNT	28 a 30 c 35 g 14 t
ORIGIN	
RESULT 13	
HUMALCE221/C	
LOCUS	HUMALCE221 103 bp ss-RNA
DEFINITION	Human carcinoma cell-derived Alu RNA transcript,
ACCESSION	PRI clone CE221.
VERSION	M87596.1 GI:174874
KEYWORDS	Alu repeat.
SOURCE	Homo sapiens male embryo carcinoma cDNA to other RNA.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Primates; Catarrhini; Hominoidea; Homo.
AUTHORS	1 (bases 1 to 103)
TITLE	Sinnett,D., Richer,C., Deragon,J.-M. and Labuda,D. Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences
JOURNAL	J. Mol. Biol. (1992) In press
FEATURES	Location/Qualifiers
source	1..103 /organism="Homo sapiens" /db_xref="taxon:9606" /cell_line="NTera2D1" /dev_stage="embryo" /sex="male" /tissue_type="carcinoma"
RESULT 14	
TACCTGTAATCCAGCACTTGGAGACTGAGGTGGATCACAGGTCAGGTT	43
Query Match	0.3%; Score 79.2; DB 13; Length 103;
Best Local Similarity	86.1%; Pred. No. 0 0012;
Matches	87; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
Qy	27423 TACCTGTAATCCAGCACTTGGAGACTGAGGTGGATCACAGGTCAGGTT 27482
BASE COUNT	25 a 27 c 33 g 18 t



• . , ~  
Wed Jun 21 14:43:27 2000

us-08-852-495c-1\_copy\_168000\_197000.rge



Copyright (c) 1993 - 2000 CompuGen Ltd.	GenCore version 4.5		
OM nucleic - nucleic search, using sw model			
Run on:	June 16, 2000, 21:16:14 ; Search time 939.94 Seconds (without alignments) 7719.451 Million cell updates/sec		
Title:	US-0B-852-495C-1_COPY_168000_197000		
Perfect score:	2901		
Sequence:	TGTGTTAGAGGAAAGCA.....TAGATAAACGGTGTCCCT 29001		
Scoring table:	IDENTITY_NUC Gapov 10.0 , Gapext 1.0		
Searched:	311585 seqs., 12509642 residues		
Minimum DB seq length:	10		
Maximum DB seq length:	110		
Post-processing:	Minimum Match 0% Listing first 45 summaries		
Database :	N_Geneseq_36.*		
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.	433070		
SUMMARIES			
Result No.	Score	Query Match Length DB ID	Description
1	72	0.2 108 1 X12095	Human biallelic po
c 2	70	0.2 108 1 X12095	Human biallelic po
c 3	67.6	0.2 108 1 T2509	Human gene signatu
c 4	65.6	0.2 100 1 T2492	Human gene signatu
c 5	63.4	0.2 88 1 V3944	Microsatellite ana
c 6	62.4	0.2 100 1 T2492	Human gene signatu
c 7	62.6	0.2 103 1 T26213	Human gene signatu
c 8	62.4	0.2 108 1 T2509	Human gene signatu
c 9	61.6	0.2 87 1 T21566	Human gene signatu
c 10	61.8	0.2 103 1 T20297	Human gene signatu
c 11	61.4	0.2 108 1 T2628	Human gene signatu
c 12	61	0.2 91 1 T25054	Human gene signatu
c 13	61	0.2 108 1 T2628	Human gene signatu
c 14	60.6	0.2 93 1 T22572	Human gene signatu
c 15	60.4	0.2 103 1 T26513	Human gene signatu
c 16	58.6	0.2 100 1 T2087	Human biallelic po
c 17	58.6	0.2 100 1 X12085	Human biallelic po
c 18	58	0.2 87 1 T21566	Human gene signatu
c 19	57.4	0.2 93 1 T24259	Human gene signatu
c 20	57.4	0.2 100 1 X12086	Human biallelic po
c 21	56.6	0.2 60 1 T66081	(dC-dA)n, (dG-dT)n
c 22	56.4	0.2 93 1 T22572	Human gene signatu
c 23	55.8	0.2 93 1 T24259	Human gene signatu
c 24	55.4	0.2 81 1 T2093	Human gene signatu
c 25	55.6	0.2 95 1 T23131	Human gene signatu
c 26	55	0.2 99 1 T24240	Human gene signatu
c 27	54	0.2 91 1 T2554	Human gene signatu
c 28	54	0.2 60 1 T65762	Repeat sequence fr
c 29	53.8	0.2 99 1 T20331	Human gene signatu
c 30	54	0.2 100 1 X12087	Human biallelic po
c 31	54	0.2 100 1 X12085	Human biallelic po
c 32	54	0.2 100 1 X12086	Human biallelic po
c 33	53.6	0.2 69 1 Q29016	Probe to internal
c 34	53.6	0.2 91 1 T65740	Repeat sequence fr
ALIGNMENTS			
RESULT	1	ID X12095	X12095
PS		AC X12095;	30-MAR-1999 (first entry)
PS		DT Human biallelic polymorphic DNA fragment TIGR-A003M18a.	
PS		KW Polymorphism; biallelic; human; forensic; paternity testing; disease; detection; phenotypic typing; characteristic; infection; hereditary; autoimmune disease; cancer; inflammation; drug; therapy; medicament; treatment; marker; ss.	
PS		KW Homo sapiens.	
PN		PN WO98016542.	
PD		PD 14-MAY-1998.	
PR		PR 05-NOV-1997; U20313.	
PR		PR (WHED ) WHITEHEAD INST BIOMEDICAL RES.	
PI		PI Hudson T, Lander ES, Wang D;	
DR		DR WPI: 98-206974725.	
PT		PT New isolated nucleic acid segments from the human genome - used for determining polymorphic forms for use in e.g. forensics, paternity testing or phenotypic typing for disease	
PT		PT Claim 1; Page 219; 310PP; English.	
PS		CC X10269-X12937 are human DNA fragments which contain biallelic polymorphic markers which have been isolated using the primers represented in X09121-X10268. The base occupying the polymorphic site is indicated by the appropriate IUPAC IUB ambiguity code. These fragments can be used in methods for determining polymorphic forms in an individual for use in e.g. forensics, paternity testing or for phenotypic typing for diseases such as gammaglobulinemia, diabetes insipidus, Lesch Nyhan syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial hypercholesterolemia, polycystic kidney disease, hereditary spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos syndrome, osteogenesis imperfecta, acute intermittent porphyria, autoimmune diseases, inflammation, cancer, diseases of the nervous system, infection by pathogenic microorganisms, and characteristics such as longevity, appearance (e.g. baldness, obesity), strength, speed, endurance, fertility, and susceptibility or receptivity to particular drugs or therapeutic treatments. The isolated polymorphic nucleic acid segments can also be used to produce medicaments for the treatment or prophylaxis of such diseases. Sequence 108 BP; 19 A; 23 C; 28 G; 37 T;	
Query	Match	Best Local Similarity 0.2%; Score 72; DB 1; Length 108; Matches 84; Conservative 1; Mismatches 21; Indels 0; Gaps 0;	
QY	8485	TTTTTTAATAGAGTGGGTTTGCCTGTCAGTCACCGCAGGCTTGACTCCGTGACCT	8544
Db	3	TCTTTTGTAGAGTGGAGCTTCTCTTGGCAGGATGGTCGACTCCGTGACTT	62
QY	8545	CAAGTGATCTGCCACCTGGCCCCCATGTCGGGATTACG	8590
Db	63	CAAGTGATCGTCGCTGGCCCTGGCCCTAACAGTGGATTAG	108

**RESULT 2**  
 X12095/c  
 ID X12095 standard; DNA; 108 BP.  
 AC X12095;  
 DT 30-MAR-1999 (first entry)  
 DE Human biallelic polymorphic DNA fragment TIGR-A003M18a.  
 KW Polymorphism; biallelic; human; forensic; paternity testing; disease; detection; phenotypic typing; characteristic; infection; hereditary; autoimmune disease; cancer; inflammation; drug; therapy; medicament; treatment; marker; ss.  
 OS Homo sapiens.  
 PN WO912015-A2.  
 PD 14-MAY-1998.  
 PR 05-NOV-1997; U20313.  
 PA (WHRED ) WHITETEAD INST BIOMEDICAL RES.  
 PI Hudson T; Lander ES; Wang D;  
 DR WPI: 98-286974/25.

New isolated nucleic acid segments from the human genome - used for determining polymorphic forms for use in e.g. forensics, paternity testing or phenotypic typing for disease

**PT** Claim 1: Page 219; 310pp; English.

**PS** Claim 1: Page 219; 310pp; English.

**CC** X10369-X12937 are human DNA fragments which contain biallelic polymorphic markers which have been isolated using the primers represented in X09121-X10268. The base occupying the polymorphic site is indicated by the appropriate IUPAC-IUB ambiguity code. These fragments can be used in methods for determining polymorphic forms in an individual for use in e.g. forensics, paternity testing or for phenotypic typing for diseases such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial hypercholesterolemia, polycystic kidney disease, hereditary spheroerytropathy, von Willebrand's disease, tuberous sclerosis, hereditary haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos syndrome, osteogenesis imperfecta, acute intermittent porphyria, autoimmune diseases, inflammation, cancer, diseases of the nervous system, infection by pathogenic microorganisms, and characteristics such as longevity, appearance (e.g. baldness, obesity), strength, speed, endurance, fertility, and susceptibility to particular drugs or therapeutic treatments. The isolated polymorphic nucleic acid segments can also be used to produce medicaments for the treatment or prophylaxis of such diseases.

**SQ** Sequence 108 BP; 19 A; 23 C; 28 G; 37 T;

**RESULT 3**  
 T25009/c  
 ID T25009 standard; cDNA to mRNA; 108 BP.  
 AC T25009;  
 DT 07-Nov-1996 (first entry)  
 DE Human gene signature HUMGS07131.  
 KW Gene signature; messenger RNA; mRNA; relative abundance; frequency; human; cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal cell function; ss.  
 OS Homo sapiens.  
 PN WO9514772-A1.  
 PD 01-JUN-1995.  
 PR 11-NOV-1994; J01916.  
 DR 12-NOV-1993; JP-355504.  
 PA (MATS/) MATSUBARA K.  
 PA (OKUB/) OKUBO K.  
 PI Matsubara K, Okubo K;  
 DR WPI: 95-206931-27.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues  
 PS Claim 1: Page 1720; 2245pp; Japanese.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues  
 PS Claim 1: Page 1720; 2245pp; Japanese.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues  
 PS A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26837 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(R) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.  
 Sequence 108 BP; 34 A; 31 C; 26 G; 15 T;

**RESULT 4**  
 T24892  
 ID T24892 standard; cDNA to mRNA; 100 BP.  
 AC T24892;  
 DT 05-Nov-1996 (first entry)  
 DE Human gene signature HUMGS05998.  
 KW Gene signature; messenger RNA; mRNA; relative abundance; frequency; human; cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal cell function; ss.  
 OS Homo sapiens.  
 PN WO9514772-A1.  
 PD 01-JUN-1995.  
 PR 11-NOV-1994; J01916.  
 DR 12-NOV-1993; JP-355504.  
 PA (MATS/) MATSUBARA K.  
 PA (OKUB/) OKUBO K.  
 PI Matsubara K, Okubo K;  
 DR WPI: 95-206931-27.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues  
 PS Claim 1: Page 1720; 2245pp; Japanese.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues  
 PS Claim 1: Page 1720; 2245pp; Japanese.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues  
 PS A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26837 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(R) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be

**PI** Matsubara K, Okubo K;  
 DR WPI: 95-206931-27.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues  
 PS Claim 1: Page 1748; 2245pp; Japanese.  
 CC A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26837 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(R) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be

CC determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.

CC sequence 100 BP; 28 A; 22 C; 25 G; 22 T;

SQ Best Local Similarity 0.2%; Score 65.6; DB 1; Length 100;  
Matches 77; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Query Match 0.2%; Score 65.6; DB 1; Length 100;  
Best Local Similarity 77.8%; Pred. No. 0.097; Matches 22; Indels 0; Gaps 0;

Match 0.2%; Score 65.6; DB 1; Length 100;  
Best Local Similarity 77; Pred. No. 0.097; Matches 22; Indels 0; Gaps 0;

RESULT 5 V39744/c  
ID V39744 standard; cDNA; 88 BP.  
AC V39744;  
DT 28-SEP-1998 (first entry)  
DE Microsatellite analysis antisense strand SEQ ID NO: 262.  
KW Mass spectrometry; diagnosis; detection; biological sample; infection;  
pathogenic organism; telomerase activity; oncogene mutation;  
cancer-specific sequence; primer; ss.  
OS Synthetic.  
PN WO9820166A2.  
PD 14-MAY-1998.  
PP U20444.  
PR 08-OCT-1997; US-947801.  
PR 06-NOV-1996; US-744481.  
PR 06-NOV-1996; US-744490.  
PR 06-NOV-1996; US-746336.  
PR 06-NOV-1996; US-746055.  
PR 23-JAN-1997; US-786888.  
PR 23-JAN-1997; US-787339.  
PR 19-SEP-1997; US-933192.  
PA (SEQU-) SEQUENOM INC.  
PI Braun A, Damhoffer-Benar B, Fu D, Higgins GS, Jurinke C,  
PI Koster H, Little DP, Lough DM, Siegert CW, Tang K,  
PI Van Den Boom D, Xiang G,  
DR WPI; 98-206975/25.

PT Sequencing nucleic acid by mass spectrometric analysis - for detecting nucleic acids, telomerase activity, oncogene mutations, or cancer-specific sequences, for diagnosis of disease

PT Example 11; Page 318; 470pp; English.

CC A process has been developed for determining the sequence of a target nucleic acid. The process comprises: (1) generating at least two fragments (F) from the target nucleic acid; and (ii) analysing F by mass spectrometry (MS). The sequences in V39744 to V39742 are specifically claimed primers for use in the mass spectrometric analysis of the above process. The process is used to detect genetic diseases (e.g. haemophilia, thalassemia, Duchenne muscular dystrophy, Alzheimer's disease, cystic fibrosis and many others) or chromosomal abnormalities (or predisposition); infections and cancers; also for establishing identity and heredity. Particular applications are diagnosis of neuroblastoma, detecting telomerase, determining family relationships and HLA compatibility, and in genetic fingerprinting. Compared with known methods using MS, this process requires fewer specific reagents and is better suited to automation. Extended primers are shorter, primer annealing is more efficient and the process allows detection of many sequences simultaneously. The present invention represents an oligonucleotide used in an example from the present invention.

RESULT 5 V39744/c  
ID V39744 standard; cDNA; 88 BP.  
AC V39744;  
DT 13-NOV-1996 (first entry)  
DE Human gene signature HUMGSS08452.  
KW Gene signature; messenger RNA; mRNA; relative abundance; frequency; human cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal cell function; ss.

Query Match 0.2%; Score 62.4; DB 1; Length 100;  
Best Local Similarity 75.8%; Pred. No. 0.28; Matches 75; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

Match 0.2%; Score 62.4; DB 1; Length 100;  
Best Local Similarity 75; Pred. No. 0.28; Matches 75; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

RESULT 6 T24892/c  
ID T24892 standard; cDNA to mRNA; 100 BP.  
AC T24892;  
DT 05-NOV-1996 (first entry)  
DE Human gene signature HUMGSS06998.  
KW Gene signature; messenger RNA; mRNA; relative abundance; frequency; human cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal cell function; ss.

OS Homo sapiens.  
PN WO951477-A1.  
PP 01-JUN-1995.  
PR 12-NOV-1994; J01916.  
PA (NATS-) MATSUBARA K.  
PA (OKUB-) OKUBO K.  
PI Matsubar K, Okubo K;  
DR WPI; 95-2005931/77.

PT Identifying gene signatures in 3'-directed human cDNA library - e.g. PT for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of correse. mRNA in specific human tissues

PS Claim 1; Page 1720; 2245pp; Japanese.

CC A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7337 "GS" sequences given in T9001-T26837 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA Libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.

SQ Sequence 100 BP; 28 A; 22 C; 25 G; 22 T;

Query Match 0.2%; Score 62.4; DB 1; Length 100;  
Best Local Similarity 75.8%; Pred. No. 0.28; Matches 75; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

Match 0.2%; Score 62.4; DB 1; Length 100;  
Best Local Similarity 75; Pred. No. 0.28; Matches 75; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

RESULT 7 T26213  
ID T26213 standard; cDNA to mRNA; 103 BP.  
AC T26213;  
DT 13-NOV-1996 (first entry)  
DE Human gene signature HUMGSS08452.  
KW Gene signature; messenger RNA; mRNA; relative abundance; frequency; human cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal cell function; ss.

Query Match 0.2%; Score 63.4; DB 1; Length 88;  
Best Local Similarity 98.5%; Pred. No. 0.2; Matches 64; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OS Homo sapiens.  
 PN WO9514772A1.  
 PD 01-JUN-1995.  
 PF 11-NOV-1994; JO1916-  
 PR 12-NOV-1993; JP-355504.  
 PA (MATS/) MATSUBARA K.  
 PA (OKUB/) OKUBO K.  
 PI Matsubara K., Okubo K;  
 DR WPI; 95-206931/27.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues  
 PT Claim 1; Page 2029; 2245pp; Japanese.  
 PS A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26337 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.  
 SQ Sequence 103 BP;  
 33 A; 21 C; 25 G; 23 T;

Query Match 0.2%; Score 62.6; DB 1; Length 103;  
 Best Local Similarity 76.2%; Pred. No. 0.27;  
 Matches 77; Conservative 0; Mismatches 24; Indels 0; Gaps 0;  
 CC

Qy 1313 ATGACGTGAGCTCCGGGGAGGGTGCAGTGACCAATTACCACTGCATCCAG 1372  
 Db 2 ATCACTTGAGTCGCCAGGAGTTGGTACAGTGACCTATGAGGACCACTGCACTCCAG 61

Qy 1373 CCTGGGTGAAGAGGAGAAATCTGCTAAAAAAGAAAAA 1413  
 Db 62 CCTGGGCCACAGAGTAAACATGTTAGAAAAAAA 102

RESULT 8  
 ID T25009 standard; cDNA to mRNA; 108 BP.  
 AC T21566;  
 DT 03-Aug-1996 (first entry)  
 DE Human gene signature HMGSS0294.  
 KW Gene signature; messenger RNA; mRNA; relative abundance; frequency; human; cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal Cell function; ss.  
 OS Homo sapiens.  
 PN WO9514772A1.  
 PD 01-JUN-1995.  
 PF 11-NOV-1994; JO1916-  
 PR 12-NOV-1993; JP-355504.  
 PA (MATS/) MATSUBARA K.  
 PA (OKUB/) OKUBO K.  
 PI Matsubara K., Okubo K;  
 DR WPI; 95-206931/27.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues  
 PT Claim 1; Page 914; 2245pp; Japanese.  
 PS A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26337 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.  
 SQ Sequence 87 BP;  
 35 A; 21 C; 16 G; 13 T;

Query Match 0.2%; Score 61.6; DB 1; Length 87;  
 Best Local Similarity 81.4%; Pred. No. 0.37;  
 Matches 70; Conservative 0; Mismatches 16; Indels 0; Gaps 0;  
 CC

Qy 15085 TGCCTCGCTTAATTGTTGATTATAGTAGAGATGGGGTTCGCCATGTCGCCAGGCTG 15144  
 CC

from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types. Sequence 108 BP;  
 34 A; 31 C; 26 G; 15 T;

**Db** 86 TTCTGGCTNATTCTGTATTTGTAAGATGGGGTTGCCAAGTCCGGCTGG 27  
**Oy** 15145 TCTCGAACACTCTGSCCTCAAGCAGTC 15170  
**Db** 26 TTTAACCTCTGGNTCAAGCGATC 1

**RESULT** 10  
**T20927** standard; cDNA to mRNA; 103 BP.  
**ID**  
**AC** T20927;  
**DT** 24-JUL-1995 (first entry)  
**DE** Human gene signature HUMGS02180.  
**KW** Gene signature; messenger RNA; mRNA; relative abundance; frequency;  
**KW** human; cloning; mapping; non-biased library; diagnosis; detection;  
**KW** cell typing; abnormal cell function; ss.  
**OS** Homo sapiens.  
**PI** Matsubara K, Okubo K;  
**DR** WPI; 95-206931/27.  
**PP** Identifying gene signatures in 3'-directed human cDNA library - e.g.  
**PT** for diagnosis of abnormal cell function, by preparing cDNA that  
**PT** reflects relative abundance of corresp. mRNA in specific human  
**BS** tissues  
**CC** Claim 1; Page 218; 224pp; Japanese.  
**CC** A single-stranded DNA (or its complementary strand or the correxp.  
**CC** double-stranded DNA) which comprises one of the 7837 "GS" sequences  
**CC** given in T19001-T26837 and which is able to hybridise to part of  
**CC** human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)  
**CC** sequences were obtained from 3'-directed cDNA libraries prepared  
**CC** from various human tissues; synthesis of cDNA was initiated from the  
**CC** 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-  
**CC** untranslated sequence is unique to a particular mRNA species, almost  
**CC** all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library  
**CC** is constructed so as to reflect accurately the relative abundance of  
**CC** different mRNAs in the particular tissue from which it was derived.  
**CC** The appearance frequency of a given GS in a cDNA library can be  
**CC** determined (esp. using primers and probes derived from the GS  
**CC** sequences) as a means of diagnosing abnormal cell function or for  
**SQ** Sequence 108 BP; 18 A; 33 C; 23 G; 28 T;

**PS** Claim 1; Page 758-759; 224pp; Japanese.  
**CC** A single-stranded DNA (or its complementary strand or the correxp.  
**CC** double-stranded DNA) which comprises one of the 7837 "GS" sequences  
**CC** given in T19001-T26837 and which is able to hybridise to part of  
**CC** human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)  
**CC** sequences were obtained from 3'-directed cDNA libraries prepared  
**CC** from various human tissues; synthesis of cDNA was initiated from the  
**CC** 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-  
**CC** untranslated sequence is unique to a particular mRNA species, almost  
**CC** all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library  
**CC** is constructed so as to reflect accurately the relative abundance of  
**CC** different mRNAs in the particular tissue from which it was derived.  
**CC** The appearance frequency of a given GS in a cDNA library can be  
**CC** determined (esp. using primers and probes derived from the GS  
**CC** sequences) as a means of diagnosing abnormal cell function or for  
**CC** recognising different cell types.  
**SQ** Sequence 103 BP; 22 A; 27 C; 21 G; 31 T;

**Query Match** 0 2%; Score 61.8; DB 1; Length 103;  
**Best Local Similarity** 75.8%; **Pred.** No. 0.35; **Matches** 75; **Conservative** 0; **Mismatches** 0; **Indels** 0; **Gaps** 0;  
**Matches** 75; **Indels** 0; **Gaps** 0;

**Oy** 15033 ATTCCTCTGCCTCAGCTCCAACTAGCTGGGACACAGGTGGTGCACCATGCTGCC 15092  
**Db** 2 ATCCGCCACTTCCACCTCCAAGTAGCGCTGTGCTACAGGTGGTGTGCCACCACTGCCAGC 61

**Oy** 15093 TAATTTGTTGATTATTAGTAGAGAAGGGGTTCCCATG 15131  
**Db** 62 TGAATTGTTGATTATTAGTAGGGACAGATTCCTCAG 100

**RESULT** 11  
**T26828/C** standard; cDNA to mRNA; 108 BP.  
**ID** T26828;  
**AC** T26828;  
**DT** 14-NOV-1996 (first entry)  
**DE** Human gene signature HUMGS09078.  
**KW** Gene signature; messenger RNA; mRNA; relative abundance; frequency;  
**KW** human; cloning; mapping; non-biased library; diagnosis; detection;  
**KW** cell typing; abnormal cell function; ss.  
**OS** Homo sapiens.  
**PI** Matsubara K, Okubo K;  
**DR** WPI; 95-206931/27.  
**PP** Identifying gene signatures in 3'-directed human cDNA library - e.g.  
**PT** for diagnosis of abnormal cell function, by preparing cDNA that  
**PT** reflects relative abundance of corresp. mRNA in specific human  
**BS** tissues  
**CC** Claim 1; Page 1944; 224pp; Japanese.  
**CC** A single-stranded DNA (or its complementary strand or the correxp.  
**CC** double-stranded DNA) which comprises one of the 7837 "GS" sequences  
**CC** given in T19001-T26837 and which is able to hybridise to part of  
**CC** human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)  
**CC** sequences were obtained from 3'-directed cDNA libraries prepared  
**CC** from various human tissues; synthesis of cDNA was initiated from the  
**CC** 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-  
**CC** untranslated sequence is unique to a particular mRNA species, almost



PA (OKUBO) OKUBO K.

PI Matsubara K., Okubo K;

DR WPI; 95-206931/27.

PT Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues

PT Claim 1; Page 2029; 2245pp; Japanese.

PS A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26337 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.

SQ Sequence 103 BP; 33 A; 21 C; 25 G; 23 T;

Query Match 0.2%; Score 60.4; DB 1; Length 103;  
Best Local Similarity 74.5%; Pred. No. 0.56; Mismatches 0; Gaps 0;  
Matches 76; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

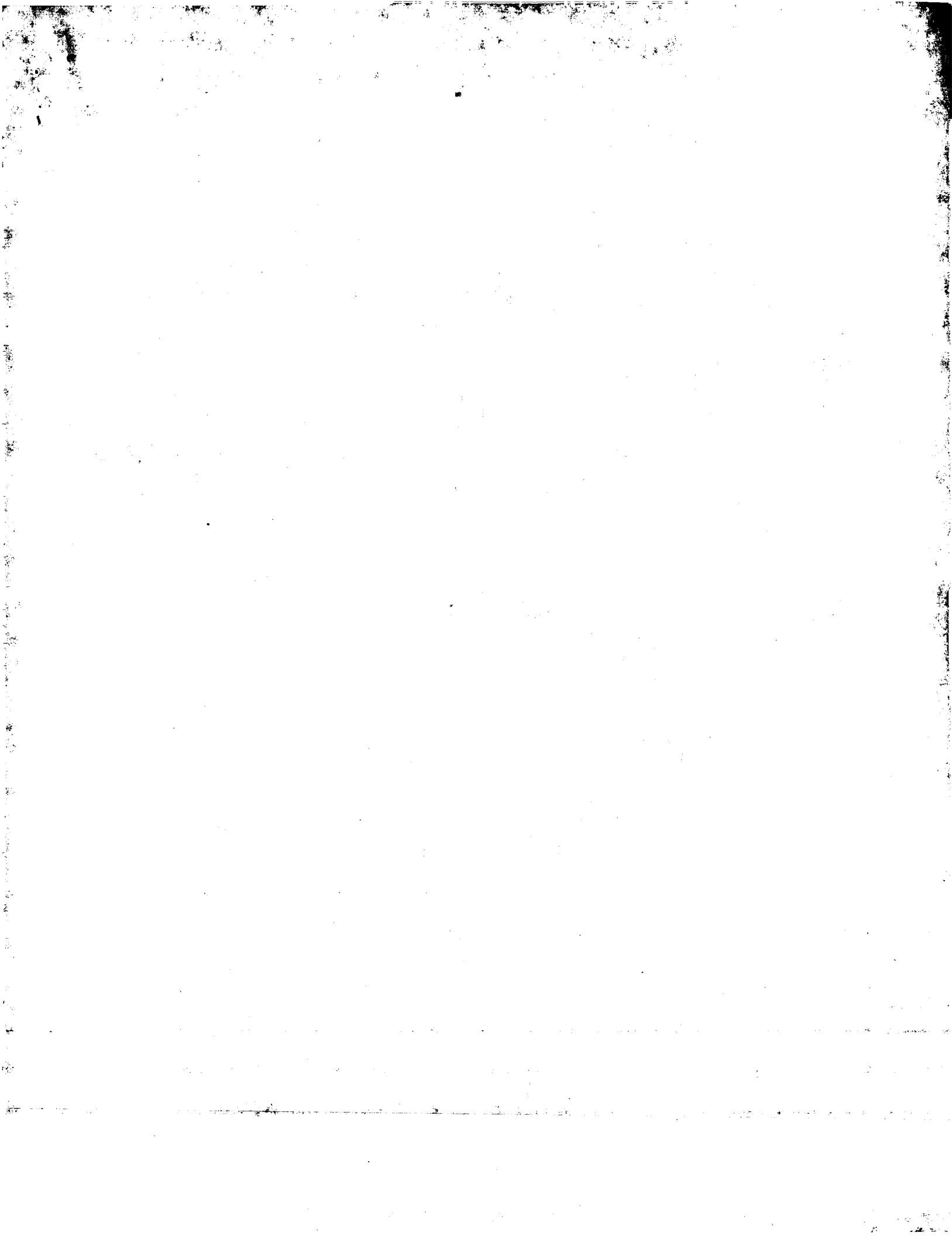
Oy 19050 TTTTTTTTTTACCGAGTCAGTCCTACTCTGTCAACCCAGGCTGGAGTGCAGCGGTGTGA 19109

Db 102 TTTTTTTCTAAAGACAGTTCTACTCTGTGCCAGCTGGAGTGCCAGTGGTGCCA 43

Oy 19110 ACATGCTCACTGCAACCTCACCTACTGACCTCAGCAATC 19151

Db 42 TCATAGCTCACTGTAACCAACCTGGACTCAAGTGATC 1

Search completed: June 17, 2000, 11:43:03  
Job time: 254694 sec



GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

## OM nucleic - nucleic search, using sw model

Run on: June 16, 2000, 15:09:23 ; Search time 13753.1 Seconds

(without alignments)

8546.953 Million cell updates/sec

Title: US-08-852-495C-1\_COPY\_168000\_197000  
perfect score:  
Sequence: 1 TGTAGGGAAAAAACCA.....TAGATAAAACGTTGTCCTT 29001

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 4857316 seqs, 2026611650 residues  
Total number of hits satisfying chosen parameters: 156056

Minimum DB seq length: 10  
Maximum DB seq length: 110

Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database : EST:\*

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1: em_est1:*
2: em_est2:*
3: em_est3:*
4: em_est4:*
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6: em_est6:*
7: em_est7:*
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9: em_est9:*
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11: em_est11:*
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22: gb_est3:*
23: gb_est4:*
24: gb_est5:*
25: gb_est6:*
26: gb_est7:*
27: gb_est8:*
28: gb_est9:*
29: gb_est10:*
30: gb_est11:*
31: gb_est12:*
32: gb_est13:*
33: gb_est14:*
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39: gb_est20:*
40: gb_est21:*
41: gb_est22:*
42: gb_est23:*
43: gb_est24:*
44: gb_est25:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result	Query	SUMMARIES
45:	gb_est26:*	
46:	gb_est27:*	
47:	gb_est28:*	
48:	gb_est29:*	
49:	gb_est30:*	
50:	gb_est31:*	
51:	gb_est32:*	
52:	em_est20:*	
53:	em_est21:*	
54:	em_est22:*	
55:	em_est23:*	
56:	em_est24:*	
57:	em_est25:*	
58:	em_est26:*	
59:	gb_est33:*	
60:	gb_est34:*	
61:	gb_est35:*	
62:	gb_est36:*	
63:	gb_est37:*	
64:	gb_est38:*	
65:	em_est27:*	
66:	em_est28:*	
67:	em_est29:*	
68:	em_est30:*	
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70:	gb_est40:*	
71:	gb_est41:*	
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73:	gb_est43:*	
74:	gb_est44:*	
75:	em_est31:*	
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77:	em_est33:*	
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c	2	87.2	0.3	108	84	B65160
c	3	87.2	0.3	109	84	B17434
c	4	87.2	0.3	109	94	AQ028426
c	5	86.8	0.3	106	37	AAT03692
c	6	86.8	0.3	109	24	N25299
c	7	86.4	0.3	107	33	AAS385808
c	8	85	0.3	101	35	AAS583697
c	9	85	0.3	106	63	A1991750
c	10	85	0.3	109	22	H1143
c	11	85	0.3	110	30	AA244245
c	12	84.4	0.3	106	30	AA250812
c	13	84.6	0.3	107	35	AA565533
c	14	83.8	0.3	103	108	AQ535244
c	15	84	0.3	109	103	AQ203347
c	16	83.2	0.3	106	94	AQ046231
c	17	83.4	0.3	109	94	AQ028426
c	18	83.4	0.3	110	30	AA244245
c	19	82.8	0.3	106	36	AA64562
c	20	82.8	0.3	107	24	H67040
c	21	82.8	0.3	110	106	AQ366882
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c	23	82.2	0.3	106	94	AQ062633
c	24	82.4	0.3	109	30	AA243009
c	25	81.8	0.3	101	39	AA832505
c	26	82	0.3	106	105	AQ282340
c	27	81.6	0.3	104	29	AA129957
c	28	81	0.3	106	44	A124096
c	29	81.2	0.3	110	106	AQ366882
c	30	80.6	0.3	103	108	AQ584425
c	31	80.6	0.3	104	105	AQ321855
c	32	80.4	0.3	106	106	AA812141
c	33	80.4	0.3	106	108	AQ414071
c	34	80	0.3	105	30	AA218889
c	35	79.6	0.3	107	103	AQ240182
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c	38	79	0.3	108	84	B65160
c	39	79.8	0.3	110	39	AA897566
c	40	79.2	0.3	100	30	AA252633
c	41	79.4	0.3	105	28	AQ078003
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c	45	79	0.3	103	35	AQ570438
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Vertebrata; Primates; Catarrhini; Hominidae; Homo.						
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AUTHORS	Adams, M.D., Rounsley, S.D., Field, C.E., Bass, S., Linher, K., Golden, K., Berry, K., Granger, D., Suh, E., Wible, C., Shizuya, H., Simon, M. and Venter, J.C.					
ACCESSION	AQ282107	Title				
VERSION	AQ282107.1	Use of a random BAC End Sequence Database for Sequence-Ready Map Building				
KEYWORDS	GSS.					
COMMENT	Unpublished (1997)	Other GSS: CITE-HSP-2017G2-TFB				
FEATURES	source					
TITLE	Berry, K., Granger, D., Suh, E., Wible, C., de Jong, P. and Venter, J.C.					
JOURNAL	Unpublished (1998)					
COMMENT	Contact: Mark Adams					
The Institute for Genomic Research						
9712 Medical Center Dr., Rockville, MD 20850, USA						
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DEFINITION	AQ282107	105 bp DNA GSS	27-APR-1999			
LOCUS	RPC11-94B21	Homo sapiens genomic clone RPC11-94B21,				
ACCESSION	AQ282107	genomic survey sequence.				
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Eutheria; Primates; Catarrhini; Hominidae; Homo.						
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AUTHORS	Adams, M.D., Rounsley, S.D., Zhao, S., Bass, S., Linher, K., Golden, K.,					
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KEYWORDS	GSS.					
COMMENT	Unpublished (1997)	Other GSS: CITE-HSP-2017G2-TFB				
FEATURES	source					
TITLE	Use of human BAC End Sequences for Sequence-Ready Map Building					
JOURNAL	Unpublished (1998)					
COMMENT	Contact: Mark Adams					
The Institute for Genomic Research						
9712 Medical Center Dr., Rockville, MD 20850, USA						
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Eutheria; Primates; Catarrhini; Hominidae; Homo.						
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9712 Medical Center Dr., Rockville, MD 20850, USA						
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JOURNAL	Unpublished (1998)					
COMMENT	Contact: Mark Adams					
The Institute for Genomic Research						
9712 Medical Center Dr., Rockville, MD 20850, USA						
RESULTS	1					
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SOURCE	human.					
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Eutheria; Primates; Catarrhini; Hominidae; Homo.						
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JOURNAL	Unpublished (1998)					
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The Institute for Genomic Research						
9712 Medical Center Dr., Rockville, MD 20850, USA						
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SOURCE	human.					
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;						
Eutheria; Primates; Catarrhini; Hominidae; Homo.						
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TITLE	Use of human BAC End Sequences for Sequence-Ready Map Building					
JOURNAL	Unpublished (1998)					
COMMENT	Contact: Mark Adams					
The Institute for Genomic Research	</					

Query Match 0.3%; Score 87.2; DB 84; Length 109;  
 Best Local Similarity 88.0%; Pred. No. 0; 33; Mismatches  
 Matches 95; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

FEATURES source

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 BASE COUNT 26 a 27 c 34 g 21 t ORIGIN

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ACCESSION AQ028426 VERSION AQ028426.1 GI:3268648 KEYWORDS GSS

REFERENCE AUTHORS Adams, M.D., Rounsley, S.D., Zhao, S., Field,C.E., Bass,S., Linher,K., Golden,K., Berry,K., Granger,D., Suh,E., Wible,C., Shizuka,H., Simon,M. and Venter,J.C.

TITLE Use of a random BAC End Sequence Database for Sequence-Ready Map Building (1998)

JOURNAL Unpublished (1998)

COMMENT Contact: Mark Adams  
 Department of Eukaryotic Genomics  
 The Institute for Genomic Research  
 9712 Medical Center Dr., Rockville, MD 20850, USA

AUTHORS 1 (bases 1 to 109)  
 Adams, M.D., Kelley, J.M., Rounsley, S.R. and Venter, J.C.

TITLE Use of a BAC End Sequence Database for Sequence-Ready Map Building (1997)

COMMENT Other\_GSS: 345K02.TP 345K02.TPB  
 Contact: Mark Adams  
 Department of Eukaryotic Genomics  
 The Institute for Genomic Research  
 9712 Medical Center Dr., Rockville, MD 20850, USA  
 Tel: 301 838 0200  
 Fax: 301 838 0208  
 Email: mdadams@tigr.org

FEATURES source

Clones are available from Research Genetics ([info@resogen.com](http://info@resogen.com)). BAC end search page:  
[http://www.tigr.org/tdb/hungen/bac\\_end\\_search/bac\\_end\\_search.html](http://www.tigr.org/tdb/hungen/bac_end_search/bac_end_search.html).  
 Seq primer: M13-21  
 Class: BAC ends.  
 Location/Qualifiers

Seq primer: M13-21  
 Class: BAC ends.  
 Location/Qualifiers

FEATURES source

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 /clone="A:345K02"  
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 /sex="Female"  
 /cell\_type="Fibroblast"  
 /note="Vector: pBAC108L; Site\_1: HindIII; Site\_2: HindIII;  
 Caltech Human BAC Library Al"  
 BASE COUNT 24 a 30 c 31 g 24 t ORIGIN

RESULT 5 AA703692/C LOCUS AA703692 106 bp mRNA DEFINITION ag8:10..r1 Stratagen hnr neuron (#937233) Homo sapiens EST Homo sapiens clone IMAGE:1140858 5', similar to contains Alu repetitive element;, mRNA sequence.

Query Match 0.3%; Score 87.2; DB 84; Length 109;  
 Best Local Similarity 88.0%; Pred. No. 0; 33; Mismatches  
 Matches 95; Conservative 0; Mismatches 13; Indels 0; Gaps 0;







5,000-10,000 microdissected, histologically normal prostate epithelial cells. Double-stranded cDNA was ligated to Eco RI adaptors, 5 cycles of PCR applied to the cDNA with an adaptor-specific primer, and the resulting PCR product subcloned into pAMP10 by the ubc-cloning method (Life Technologies). Average insert size is 600 bp. NOTE: Not directionally cloned. This library was constructed by David Krizman.

**BASE COUNT** 17 a **26 C** **28 g** **38 t** **1 others**  
**ORIGIN**

Query Match 0.3%; Score 85; DB 30; Length 110;  
Best Local Similarity 85.5%; Pred. No. 0.59; Mismatches 16; Indels 0; Gaps 0;  
Matches 94; Conservative 0; MisMatches 16; Indels 0; Gaps 0;

**Qy** 22363 TGTGTTTCTGAAATGGAGTCACAGCTGTGCGCCAGGCTGAGTGACAGNGCACACT 22422  
**Db** 1 TTTTTTTTGGAGAGGAGCTGTGTCAGGAGTCCTCTACTA 22472  
**Qy** 22423 TGGTCACTGAACTCCACCTCCGGTCAGGAGTCCTCTACTA 22472  
**Db** 61 TGGCCTACTGCACCTCTGGTCAGAGATTCTCTCTCA 110

RESULT 12

**LOCUS** AA250812 **106 bp** mRNA **EST** **15-AUG-1997**  
**DEFINITION** z500a05\_s1 NCI-CGAP\_GCB1 Homo sapiens cDNA clone IMAGE:684368 3'  
**REMARKS** similar to contains Alu repetitive element; contains element MER22  
**REPETITIVE ELEMENT**; mRNA sequence.

**ACCESSION** AA250812 **VERSION** AA250812.1 **TITLE** G1:1885774  
**KEYWORDS** EST.  
**SOURCE** SOURCE  
**ORGANISM** Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Hominidae; Homo.  
**REFERENCE** 1 (bases 1 to 106)  
**AUTHORS** NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
**JOURNAL** National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
**COMMENT** Unpublished (1997)  
On Sep 12, 1996 this sequence version replaced gi:1393355.  
Contact: Robert Strausberg, Ph.D.  
Tel: (301) 496-1550  
Email: Robert.Strausberg@nih.gov

**JOURNAL** **COMMENT** Unpublished (1997)  
On Sep 12, 1996 this sequence version replaced gi:1393355.  
Contact: Robert Strausberg, Ph.D.  
Tel: (301) 496-1550  
Email: Robert.Strausberg@nih.gov

This clone is available royalty-free through LLNL; contact the IMCB Consortium ([info@image.llnl.gov](http://info@image.llnl.gov)) for further information.  
Insert length: 537 Std Error: 0.00  
Seq primer: 41m13 fwd. ET from Amersham  
High quality sequence stop: 87.

FEATURES

source

1. **i\_106**  
**/organism="Homo sapiens"**  
**/db\_xref="taxon:9606"**  
**/clone="IMAGE:684368"**  
**/clone\_1bp="NCI-CGAP\_GCB1"**  
**/tissue\_type="germinal center B cell"**  
**/lab\_host="DH10B"**  
**/note="Vector: pTR73D-Pac (Pharmacia) with a modified polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st strand cDNA was prepared from human tonsillar cells enriched for germinal center B cells by flow sorting (CD20+, IgD+), provided by Dr. Louis M. Staudt (NCI), Dr. David Allman (NCI) and Dr. Gerald Marti (CBER). cDNA synthesis was primed with a Not I - oligo(dT) primer**  
**[5'-CTTGTACCAACGAGCTGGGGGGCGCTCATTTTTTTTTT-3']**  
**3'. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pTR73 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo."**

**BASE COUNT** 20 a **28 c** **31 g** **27 t**  
**ORIGIN**

Query Match 0.3%; Score 84.4; DB 30; Length 106;  
Best Local Similarity 89.2%; Pred. No. 0.7; Mismatches 11; Indels 0; Gaps 0;  
Matches 91; Conservative 0; MisMatches 11; Indels 0; Gaps 0;

**Qy** 15110 GCTAGAGATGGGTTGCCATGTGCCAGGCTGGTCTGACTCTGGCTCAAGGAT 15211  
**Db** 61 CCACtgccTggccTccCaAGTGTGCTGGGTTACAGGT 102

RESULT 13

**LOCUS** AA565533/c **107 bp** mRNA **EST** **08-SEP-1997**  
**DEFINITION** nk2b11\_s1 NCI-CGAP\_GC2 Homo sapiens cDNA clone IMAGE:1016157 3'  
**REMARKS** similar to contains Alu repetitive element; mRNA sequence.

**ACCESSION** AA565533 **VERSION** AA565533.1 **TITLE** G1:233172  
**KEYWORDS** EST.  
**SOURCE** SOURCE  
**ORGANISM** Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Hominidae; Homo.  
**REFERENCE** 1 (bases 1 to 107)  
**AUTHORS** NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
**JOURNAL** National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
**COMMENT** Unpublished (1997)  
On Sep 12, 1996 this sequence version replaced gi:1393355.  
Contact: Robert Strausberg, Ph.D.  
Tel: (301) 496-1550  
Email: Robert.Strausberg@nih.gov

**CDNA LIBRARY ARRAYING:** Greg Lennon, Ph.D.  
**DNA SEQUENCING BY:** Washington University Genome Sequencing Center  
**CLONE DISTRIBUTION:** NCI-CGAP clone distribution information can be found through the T.M.A.G.E. Consortium/LLNL at:  
[www-bio.llnl.gov/bbrp/image/Image.html](http://www-bio.llnl.gov/bbrp/image/Image.html)

Insert Length: 1661 Std Error: 0.00  
Seq primer: -41m13 fwd. ET from Amersham  
High quality sequence stop: 87.

**FEATURES**  
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1. **i\_107**  
**/organism="Homo sapiens"**  
**/db\_xref="taxon:9605"**  
**/clone="IMAGE:1016157"**  
**/clone\_1bp="NCI-CGAP\_GC2"**  
**/tissue\_type="germ cell tumor"**  
**/lab\_host="SOLR (kanamycin resistant)"**  
**/note="Vector: Bluescript SK; Site\_1: EcoRI; Site\_2: XbaI; Cloned unidirectionally. Primer: Oligo dT. Bulk germ cell tumor. 5' adaptor sequence: 5' GATTCGCGACGAG 3' 3' adaptor sequence: 5' CTCGAGTTTGTGTTTTTTT 3'**  
**Average Insert size: 1.2 kb."**

FEATURES

**BASE COUNT** 22 a **34 c** **26 g** **25 t**  
**ORIGIN**

Query Match 0.3%; Score 84.6; DB 35; Length 107;  
Best Local Similarity 86.9%; Pred. No. 0.66; Mismatches 93; Conservative 0; MisMatches 14; Indels 0; Gaps 0;

**Qy** 16864 TGGCATCTGCCCTGAGTCCAGCTACTGGGACACTGAGGAGAACCC 16923

RESULT 14

Db 107 TGGTGTGCCGTATCCAGCTACTCAGGAGCTGAGGCAAGGAACTGACCT 48  
 Qy AGAGCGAGATGTCAGTGAGCTGAGATGCGGCACATTCAG 16970  
 DEFINITION RPCI-11-317H22 genomic survey sequence.

ACCESSION AQ535244

LOCUS 103 bp DNA GSS 18-MAY-1999

DEFINITION Homo sapiens genomic clone

VERSION AQ535244.1

TITLE GT:4846934

KEYWORDS GSS.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 109)

AUTHORS Adams, M.D., Rounseley, S.D., Zhao, S., Bass, S., Linher, K., Golden, K., Berry, K., Granger, D., Suh, E., Wible, C., de Jong, P. and Venter, J.C.

TITLE Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready Map Building

COMMENT Unpublished (1998)  
 Other\_GSS: RPCI11-43B21.TK  
 Contact: Mark Adams  
 Department of Eukaryotic Genomics  
 The Institute for Genomic Research  
 9712 Medical Center Dr., Rockville, MD 20850, USA  
 Tel: 301 838 0200  
 Fax: 301 838 0208  
 Email: madams@tigr.org

Copies are derived from the human BAC library RPCI-11. For BAC library availability, Please contact Pieter de Jong (pieterdejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (<http://bacpac.med.buffalo.edu/ordering>) or from Research Genetics ([info@regegen.com](mailto:info@regegen.com)). BAC end search page: [http://www.tigr.org/tgb/hungen/bac\\_end\\_search.html](http://www.tigr.org/tgb/hungen/bac_end_search.html). Class: BAC ends.

FEATURES source

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 /db\_xref="GDB:7516153"  
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 /clone="RPCI-11-317H22"  
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 /sex="Male"  
 /cell\_type="Lymphocytes"  
 /note="Vector: pBACE3.6; Site\_1: ECO RI; Site\_2: ECO RI;  
 RPCI11 Human Male BAC Library"

BASE COUNT 27 a 31 c 29 g 22 t

ORIGIN

FEATURES source

1. . 103 Query Match 0.3%; Score 83.8; DB 108; Length 103;  
 Best Local Similarity 88.3%; Pred. No. 0.83; Matches 91; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy CCAGCACTTGGAGCCGAGCGCAGTCAGTGAGCACAGAGCAGCC 17791  
 Db 1 CCAGCACTTGGAGCCGAGCGCAGTCAGTGAGCACAGAGCAGCC 60

Qy TGGCTACATGGCAAACCCATCTCTACTAAATAACAAAAA 17834  
 Db 61 TGGCCACATGGCAAACCCGCTCTGCTATAACAAA 103

RESULT 15

AQ200347 LOCUS 109 bp DNA GSS 20-APR-1999  
 DEFINITION RPCI11-43B21.TK Homo sapiens genomic clone RPCI-11-43B21,

Query Match 0.3%; Score 83.8; DB 108; Length 103;  
 Best Local Similarity 88.3%; Pred. No. 0.83; Matches 91; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

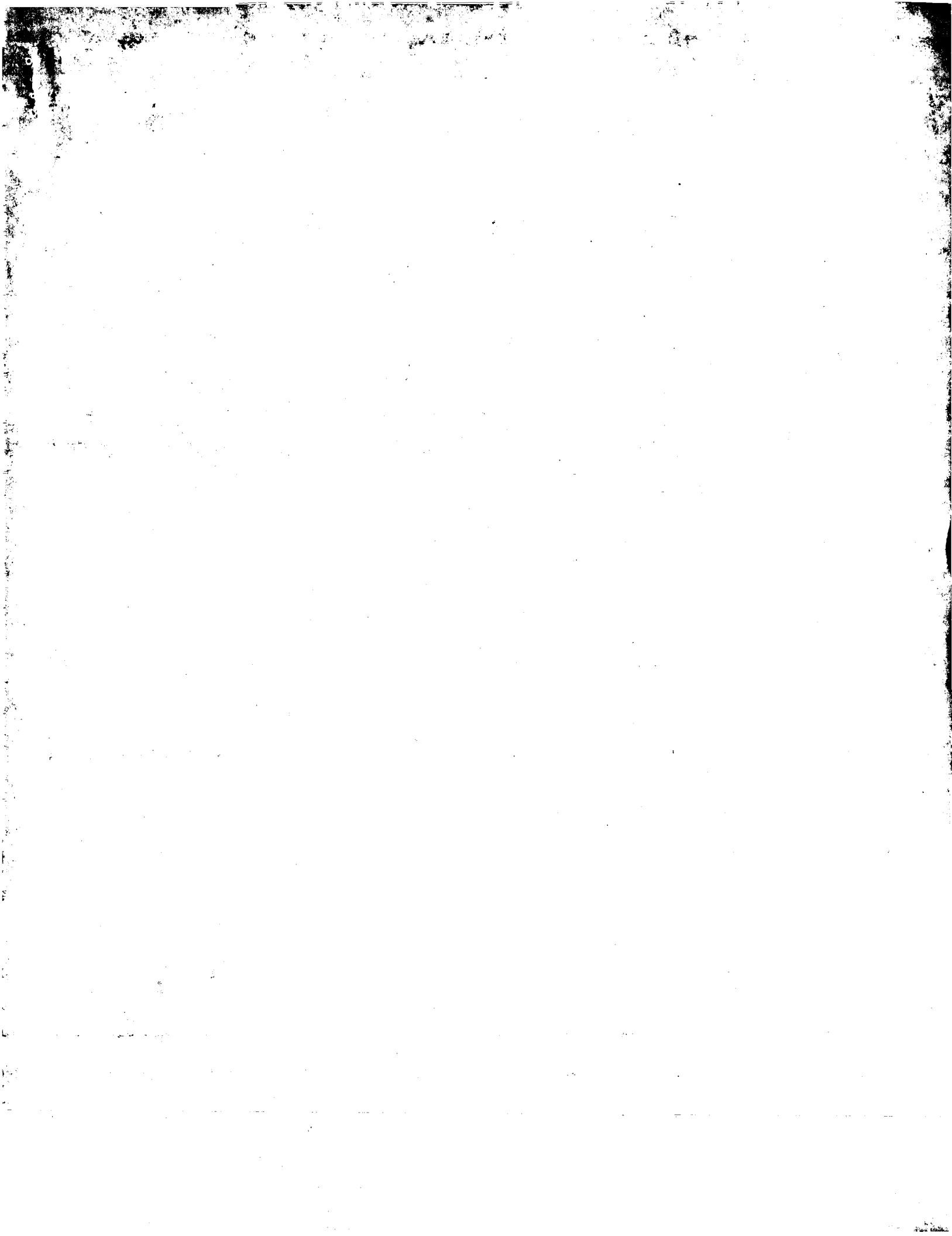
Qy CCAGCACTTGGAGCCGAGCGCAGTCAGTGAGCACAGAGCAGCC 17791  
 Db 1 CCAGCACTTGGAGCCGAGCGCAGTCAGTGAGCACAGAGCAGCC 60

Qy TGGCTACATGGCAAACCCATCTCTACTAAATAACAAAAA 17834  
 Db 61 TGGCCACATGGCAAACCCGCTCTGCTATAACAAA 103

Search completed: June 17, 2000, 02:34:25  
 Job time: 223032 sec

Wed Jun 21 14:43:33 2000

us-08-852-495c-1\_copy\_168000\_197000.rst



GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 16, 2000, 20:15:34 ; Search time 593.69 Seconds  
(without alignments)  
6349.604 Million cell updates/sec

Title: US-08-852-495C-1\_COPY\_168000\_197000  
Perfect score:  
Sequence: 1 TGTTAGAGGAAAAACCA.....TAGATAAAACGTTGTCCTT 29001  
Scoring table: IDENTITY\_NUC  
Gapext 1.0 , Gapext 1.0

Searched: 230463 seqs, 64992525 residues

Total number of hits satisfying chosen parameters: 374504

Minimum DB seq length: 10  
Maximum DB seq length: 110

Post-processing: Minimum Match 08  
Listing first 45 summaries

Database : Issued\_Patents\_NA:\*

1: /cggn2\_6/ptodata/\_ina/5A\_COMB.seq: \*  
2: /cggn2\_6/ptodata/\_ina/5C\_COMB.seq: \*  
3: /cggn2\_6/ptodata/\_ina/5D\_COMB.seq: \*  
4: /cggn2\_6/ptodata/\_ina/6A\_COMB.seq: \*  
5: /cggn2\_6/ptodata/\_ina/6C\_COMB.seq: \*  
6: /cggn2\_6/ptodata/\_ina/6D\_COMB.seq: \*  
7: /cggn2\_6/ptodata/\_ina/backfile1.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

Result No.	Score	Query Match	Length	DB ID	Description
c 1	82.6	0.3	105	4	US-08-481-658B-65
c 2	82.6	0.3	105	4	US-08-477-50A-65
c 3	82.6	0.3	105	4	US-08-486-75A-65
c 4	82.6	0.3	105	4	US-08-485-86B-65
c 5	82.6	0.3	105	4	US-08-487-739-65
c 6	68.6	0.2	84	3	US-08-454-557C-91
c 7	68.6	0.2	84	4	US-08-430-426D-91
c 8	68.6	0.2	84	4	US-08-430-673C-91
c 9	68.6	0.2	84	6	PCT-US95-17111A-91
c 10	64.8	0.2	105	4	US-08-481-658B-65
c 11	64.8	0.2	105	4	US-08-477-50A-65
c 12	64.8	0.2	105	4	US-08-486-75A-65
c 13	64.8	0.2	105	4	US-08-485-86B-65
c 14	64.8	0.2	105	5	US-08-487-739-65
c 15	59.4	0.2	78	3	US-08-454-557C-70
c 16	59.4	0.2	78	4	US-08-340-426D-70
c 17	59.4	0.2	78	4	US-08-477-50A-70
c 18	59.4	0.2	78	6	PCT-US95-17111A-70
c 19	57.8	0.2	78	3	US-08-454-557C-70
c 20	57.8	0.2	78	4	US-08-340-426D-70
c 21	57.8	0.2	78	4	US-08-454-557C-70
c 22	57.8	0.2	78	6	PCT-US95-17111A-70
c 23	56.6	0.2	92	1	US-08-222-177A-430
c 24	56	0.2	85	3	US-08-454-557C-92
c 25	56	0.2	85	4	US-08-426D-92
c 26	56	0.2	85	4	US-08-350-673C-92
c 27	56	0.2	85	4	US-08-350-673C-92

**ALIGNMENTS**

RESULT 1  
US-08-481-658B-65/c  
; Sequence 65, Application US/08481658B  
; Patent No. 5953075  
; GENERAL INFORMATION:  
; ;  
; APPLICANT: Zavadova, Jan  
; ;  
; APPLICANT: Pastorek, Jaromir  
; ;  
; TITLE OF INVENTION: MN Gene and Protein  
; ;  
; NUMBER OF SEQUENCES: 86  
; ;  
; CORRESPONDENCE ADDRESS:  
; ;  
; ADDRESSEE: Leona L. Launder  
; ;  
; STREET: 6 Mariposa Court  
; ;  
; CITY: Tiburon  
; ;  
; STATE: California  
; ;  
; COUNTRY: USA  
; ;  
; ZIP: 94920  
; ;  
; COMPUTER READABLE FORM:  
; ;  
; MEDIUM TYPE: FLOPPY disk  
; ;  
; COMPUTER: IBM PC compatible  
; ;  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; ;  
; CURRENT APPLICATION DATA:  
; ;  
; APPLICATION NUMBER: US/08/481-658B  
; ;  
; FILING DATE: 07-JUN-1995  
; ;  
; CLASSIFICATION: 424  
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; PRIORITY APPLICATION DATA:  
; ;  
; APPLICATION NUMBER: US 08/260,190  
; ;  
; FILING DATE: 15-JUN-1994  
; ;  
; ATTORNEY/AGENT INFORMATION:  
; ;  
; NAME: Lauder, Leona L.  
; ;  
; REGISTRATION NUMBER: 30,863  
; ;  
; REFERENCE/DOCKET NUMBER: D-0021.3E  
; ;  
; TELECOMMUNICATION INFORMATION:  
; ;  
; TELEPHONE: 415-435-2034  
; ;  
; TELEFAX: 415-435-0727  
; ;  
; INFORMATION FOR SEQ ID NO: 65:  
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; SEQUENCE CHARACTERISTICS:  
; ;  
; LENGTH: 105 base pairs  
; ;  
; REFERENCE/DATABASE NUMBER: D-0021.3E  
; ;  
; TYPE: nucleic acid  
; ;  
; STRANDEDNESS: single  
; ;  
; TOPOLOGY: linear  
; ;  
; MOLECULE TYPE: DNA (genomic)  
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; HYPOTHETICAL: NO  
; ;  
; ANTI-SENSE: NO  
; ;  
; US-08-481-658B-65  
; ;  
; Query Match Best Local Similarity 0.3%; Score 82.6; DB 4; Length 105;



CITY: Tiburon  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94220

COMPUTER READABLE FORM:  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, version #1.30 (EPO)

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/485,862B  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/477,504  
 FILING DATE: 07-JUN-1995  
 APPLICATION NUMBER: US 08/260,190  
 FILING DATE: 15-JUN-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3D  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-431-2034  
 TELEFAX: 415-435-0727  
 INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base Pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 US-08-485-862B-65

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Query Match 0.3%; Score 82.6; DB 4; Length 105;  
 Best Local Similarity 86.7%; Pred. No. 1.7e-09; Mismatches 91; Conservative 0; Indels 0; Gaps 0; Matches 14;

Qy 16744 ATCCACGACTTGTGGAGGCCAAGGGCAGATCACAGGGTCAGAGTTGAGACCAGC 16803  
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Qy 16804 CTGACCAACATGGTGAACCGCTCTACTAACAAATACAAA 16848  
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RESULT 5  
 US-08-787-739-65/C  
 ; Sequence 65, Application US/08787739  
 ; Patent No. 6027887

GENERAL INFORMATION:  
 APPLICANT: Zavada, Jan  
 APPLICANT: Pastorekova, Silvia  
 APPLICANT: Pastorek, Jaromir  
 TITLE OF INVENTION: MN Gene and Protein  
 NUMBER OF SEQUENCES: 96

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Leona L. Lauder  
 STREET: 369 Pine Street, Suite 610  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94104

COMPUTER READABLE FORM:  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, version #1.30 (EPO)

CURRENT APPLICATION DATA:

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Query Match 0.3%; Score 82.6; DB 5; Length 105;  
 Best Local Similarity 86.7%; Pred. No. 1.7e-09; Mismatches 91; Conservative 0; Indels 0; Gaps 0; Matches 14;

Qy 16744 ATCCACGACTTGTGGAGGCCAAGGGCAGATCACAGGGTCAGAGTTGAGACCAGC 16803  
 Db 105 ATCCACGACTTGTGGAGGCCAAGGGTCAAGGTCAAGGTCTGGAGACGCAGC 46

Qy 16804 CTGACCAACATGGTGAACCGCTCTACTAACAAATACAAA 16848  
 Db 45 CTGGCCCATATGGTGAACCCCTGCTCTACTAACAGTGTAAGATGTAAGA 1

RESULT 6  
 US-08-154-557C-91/C  
 ; Sequence 91, Application US/08454557C  
 ; Patent No. 5830670  
 ; GENERAL INFORMATION:  
 ; APPLICANT: de la Monte, Suzanne  
 ; APPLICANT: Wands, Jack R.  
 ; TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection  
 ; TITLE OF INVENTION: of Alzheimer's Disease  
 ; NUMBER OF SEQUENCES: 121

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3934

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/154,557C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REGISTRATION NUMBER: 36, 203  
 REFERENCE/DOCKET NUMBER: 0509.3840003  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 FAX: (202) 371-2540  
 INFORMATION FOR SEQ ID NO: 91:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLogy: both  
 ; US-08-454-557C-91

RESULT 7  
 US-08-340-426D-91/C  
 Sequence 91, Application US/08450673C  
 ; Sequence 91, Application US/08450673C  
 ; PATENT NO. 5948634  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wands, Jack R.  
 ; TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection  
 ; NUMBER OF SEQUENCES: 121  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
 ; STREET: 1100 New York Avenue, Suite 600  
 ; CITY: Washington  
 ; STATE: D.C.  
 ; COUNTRY: U.S.A.  
 ; ZIP: 20005-3934  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/450,673C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REGISTRATION NUMBER: 36, 203  
 REFERENCE/DOCKET NUMBER: 0509.3840004  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 FAX: (202) 371-2540  
 INFORMATION FOR SEQ ID NO: 91:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLogy: both  
 ; US-08-450-673C-91

Query Match 0.2%; Score 68.6; DB 3; Length 84;  
 Best Local Similarity 89.2%; Pred. No. 1.8e-06; 9; Indels 0; Gaps 0;  
 Matches 74; Conservative 0; Mismatches 9;  
 Query Match 0.2%; Score 68.6; DB 4; Length 84;  
 Best Local Similarity 89.2%; Pred. No. 1.8e-06; 9; Indels 0; Gaps 0;  
 Matches 74; Conservative 0; Mismatches 9;  
 Query 16734 CACGCCGTGAAATCCCAAGCACTTGGGAGGCCAGGGAGATCACGAGGTCAAGAGTT 16793  
 Db 83 CACGCCGTGAAATCCCAAGCACTTGGGAGGCCAGGGAGATCACGAGGTCAAGAGTT 24  
 Query 16794 TGAGACCAGCTGACCAACATGG 16816  
 Db 23 CGACACCAGCCTGATGACATGG 1  
 RESULT 8  
 US-08-450-673C-91/C  
 Sequence 91, Application US/08450673C  
 ; Sequence 91, Application US/08450673C  
 ; PATENT NO. 5948634  
 ; GENERAL INFORMATION:  
 ; APPLICANT: de la Monte, Suzanne  
 ; TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection  
 ; NUMBER OF SEQUENCES: 121  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
 ; STREET: 1100 New York Avenue, Suite 600  
 ; CITY: Washington  
 ; STATE: D.C.  
 ; COUNTRY: U.S.A.  
 ; ZIP: 20005-3934  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/450,673C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REGISTRATION NUMBER: 36, 203  
 REFERENCE/DOCKET NUMBER: 0509.3840004  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 FAX: (202) 371-2540  
 INFORMATION FOR SEQ ID NO: 91:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLogy: both  
 ; US-08-450-673C-91

Query Match 0.2%; Score 68.6; DB 4; Length 84;  
 Best Local Similarity 89.2%; Pred. No. 1.8e-06; 9; Indels 0; Gaps 0;  
 Matches 74; Conservative 0; Mismatches 9;  
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 Db 23 CGACACCAGCCTGATGACATGG 1  
 ; US-08-454-557C-91

RESULT 9  
 PCT-US95-1711A-91/C  
 Sequence 91, Application PC/PCTUS951711A  
 ; GENERAL INFORMATION:  
 ; APPLICANT: de la Monte, Suzanne  
 ; TITLE OF INVENTION: Neural thread Protein Gene Expression and  
 ; DETECTION OF INVENTION: Detection of Alzheimer's Disease  
 ; NUMBER OF SEQUENCES: 121  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Stern, Kessler, Goldstein & Fox P.L.L.C.  
 ; STREET: 1100 New York Avenue, Suite 600  
 ; CITY: Washington  
 ; STATE: D.C.  
 ; COUNTRY: U.S.A.  
 ; ZIP: 20005-3934  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US08/481,658B  
 ; FILING DATE: 07-JUN-1995  
 ; CLASSIFICATION: 424  
 ; PRIORITY APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT/US95/1711A  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Ludwig, Steven R.  
 ; REGISTRATION NUMBER: 36,203  
 ; REFERENCE/DOCKET NUMBER: 0609.3840002  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (202) 371-2400  
 ; TELEFAX: (202) 371-2540  
 ; INFORMATION FOR SEQ ID NO: 91:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 84 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: both  
 ; TOPOLOGY: linear  
 ; PCT-US95-1711A-91

Query Match 0.2%; Score 68.6; DB 6; Length 84;  
 Best Local Similarity 89.2%; Pred. No. 1.8e-06;  
 Matches 74; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

RESULT 10  
 US-08-481-658B-65  
 Sequence 65, Application US/08481658B  
 ; GENERAL INFORMATION:  
 ; PATENT NO. 5955075  
 ; APPLICANT: Zavada, Jan  
 ; APPLICANT: Pastorekova, Silvia  
 ; APPLICANT: Pastorek, Jaromir  
 ; TITLE OF INVENTION: MN Gene and Protein  
 ; NUMBER OF SEQUENCES: 86  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Leona L. Lauder  
 ; STREET: 6 Mariposa Court  
 ; CITY: Tiburon  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94920  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US08/477,504A  
 ; FILING DATE: 07-JUN-1995  
 ; CLASSIFICATION: 424  
 ; PRIORITY APPLICATION DATA:

Query Match 0.2%; Score 64.8; DB 4; Length 105;  
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 Sequence 65, Application US/08477504A  
 ; GENERAL INFORMATION:  
 ; PATENT NO. 597335  
 ; APPLICANT: Zavada, Jan  
 ; APPLICANT: Pastorekova, Silvia  
 ; APPLICANT: Pastorek, Jaromir  
 ; TITLE OF INVENTION: MN Gene and Protein  
 ; NUMBER OF SEQUENCES: 86  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Leona L. Lauder  
 ; STREET: 6 Mariposa Court  
 ; CITY: Tiburon  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94920  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US08/477,504A  
 ; FILING DATE: 07-JUN-1995  
 ; CLASSIFICATION: 424  
 ; PRIORITY APPLICATION DATA:

RESULT 11  
 US-08-477-504A-65  
 Sequence 65, Application US/08477504A  
 ; GENERAL INFORMATION:  
 ; PATENT NO. 597335  
 ; APPLICANT: Zavada, Jan  
 ; APPLICANT: Pastorekova, Silvia  
 ; APPLICANT: Pastorek, Jaromir  
 ; TITLE OF INVENTION: MN Gene and Protein  
 ; NUMBER OF SEQUENCES: 86  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Leona L. Lauder  
 ; STREET: 6 Mariposa Court  
 ; CITY: Tiburon  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94920  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

APPLICATION NUMBER: US 08/260,190  
FILING DATE: 15-JUN-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Lauder, Leona L.  
REGISTRATION NUMBER: 30,863  
REFERENCE/DOCKET NUMBER: D-0021.3D  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-435-2034  
TELEFAX: 415-435-0727  
INFORMATION FOR SEQ ID NO: 65:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 105 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO

```

; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-486-756A-65

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		87;	Conservative	Mismatches
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				Indels
				2;
				Gaps
				1;
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Db	15156	TTTTTACACTTCTAGTAGAGACAGGGTTACCATATGCGCAGGCTCTCAACTCC	61	
Db	62	TGACCT--TGTGACCCACCAAGCTCGCCCTCCAACTGCTGGAT	105	

Query Match 0.2%; Score 64.8; DB 4; Length 105;  
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 Matches 87; Conservative 0; Mismatches 17; Indels 2;  
 Matches 87; Conservative 0; Mismatches 17; Indels 2;

Qy	Db	Sequence
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Qy 62	Db 62	TGACCT--TGTGATCACCAGGCTGGCCCTCCAAAGTGCTGGAT 105

**RESULT 12**

US-08-486-756A-65  
Sequence 65, Application US/08486756A

PATENT NO. 5981711.

GENERAL INFORMATION:

APPLICANT: Zavada, Jan  
APPLICANT: Pastorekova, Silvia  
APPLICANT: Pastorek, Jaromir

TITLE OF INVENTION: MN Gene and Protein NUMBER OF SEQUENCES: 86

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Leona L. Lauder  
STREET: 6 Mariposa Court  
CITY: Tiburon  
STATE: California  
COUNTRY: USA  
ZIP: 94920

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/486,756A  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/260,190  
FILING DATE: 15-JUN-1994

ATTORNEY/AGENT INFORMATION:

NAME: Lauder, Leona L.  
REGISTRATION NUMBER: 30,863  
REFERENCE/DOCKET NUMBER: D-0021.3C

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-435-2034  
TELEFAX: 415-433-0727

INFORMATION FOR SEQ ID NO: 65:

SEQUENCE CHARACTERISTICS:

LENGTH: 105 base pairs

PATENT NO. 5908838  
GENERAL INFORMATION:  
APPLICANT: Zavada, Jan  
APPLICANT: Pastorekova, Silvia  
APPLICANT: Pastorek, Jaromir  
TITLE OF INVENTION: MN Gene and Protein  
NUMBER OF SEQUREMENTS: 86  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Leona L. Lauder  
STREET: 6 Mariposa Court  
CITY: Tiburon  
STATE: California  
COUNTRY: USA  
ZIP: 94920  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08485,862B  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/477,504  
FILING DATE: 07-JUN-1995  
APPLICATION NUMBER: US 08/260,190  
FILING DATE: 15-JUN-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Lauder, Leona L.  
REGISTRATION NUMBER: 30,863  
REFERENCE/DOCKET NUMBER: D-0021.3D  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-435-2034  
TELEFAX: 415-435-0727  
INFORMATION FOR SEQ ID NO: 65:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 105 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO

Query Matc

Best Local Similarity 82.1%; Pred. No. 1.4e-05; Mismatches 0; Indels 1; Gaps 1; ANTI-SENSE: NO  
Matches 87; Conservative 0; Mismatches 17; Indels 2; Gaps 1; US-08-787-739-65

Query Match 0.2%; Score 64.8; DB 5; Length 105;  
Best Local Similarity 82.1%; Pred. No. 1.4e-05; Mismatches 0; Indels 2; Gaps 1; Gaps 0; ANTI-SENSE: NO  
Matches 87; Conservative 0; Mismatches 17; Indels 2; Gaps 1; US-08-787-739-65

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QY 15156 TGCCTCAAGCGATCCACTTGCTTGCCCTCCAAGATGCTAGAT 15201  
Db 62 TGACCT-TGIGATCCACCGAGCTCGGCCCTCCCAAAGTGTGGAT 105

RESULT 14  
US-08-87-739-65  
Sequence 65, Application US/08787739  
Patient No. 62/1887  
GENERAL INFORMATION:  
APPLICANT: Zavada, Jan  
APPLICANT: Pastorekova, Silvia  
APPLICANT: Pastorek, Jaromir  
TITLE OF INVENTION: MN Gene and Protein  
NUMBER OF SEQUENCES: 96  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Leona L. Lauder  
STREET: 369 Pine Street, Suite 610  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/787.739  
FILING DATE: 24-JAN-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/485,049  
FILING DATE: 07-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/486,756  
FILING DATE: 07-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/477,504  
FILING DATE: 07-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/481,658  
FILING DATE: 07-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/485,862  
FILING DATE: 07-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/485,863  
FILING DATE: 07-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/487,077  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Lauder, Leona L.  
REGISTRATION NUMBER: 36,203  
REFERENCE/DOCKET NUMBER: 0609.3840003  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2600  
TELEFAX: (202) 371-2540  
INFORMATION FOR SEQ ID NO: 70:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 78 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: both  
US-08-454-557C-70

Query Match 0.2%; Score 59.4; DB 3; Length 78;  
Best Local Similarity 85.7%; Pred. No. 0.00018; Mismatches 0; Indels 11; Gaps 0; Gaps 0; ANTI-SENSE: NO  
Matches 66; Conservative 0; Mismatches 11; Indels 0; Gaps 0; US-08-787-739-65

QY 15081 ACCATGCCCTGCTTAATTGTATATAGAGATGGGTTGCCATGTTGCCAGG 15140  
Db 1 ACACACGCCAACATAATTGTATATAGAGATGGGTTGCCATGTTGCCAGG 60

QY 15141 CTGGTCTGAACTCTG 15157  
Db 61 CTTGGTCTGAACTCTG 77

HYPOTHETICAL: NO

Wed Jun 21 14:43:31 2000

us-08-852-495c-1\_copy\_168000\_197000.rni

Page 8

Search completed: June 17, 2000, 10:50:11  
Job time: 251741 sec

GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

## OM nucleic - nucleic search, using sw model

Run on: June 17, 2000, 10:40:12 ; search time 29137.4 Seconds  
(without alignments)  
- 600.987 Million cell updates/sec

Title: US-08-852-495C-1\_COPY\_196000\_214000

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Gapop 10.0 , Gapext 1.0

Searched: 882769 seqs, -486395729 residues

Total number of hits satisfying chosen parameters: 370290

Minimum DB seq length: 10

Maximum DB seq length: 110

Post-processing: Minimum Match 0%

Listing first 45 summaries

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2: gb\_ba2:\*

3: gb\_om:\*

4: gb\_ov:\*

5: gb\_pat:\*

6: gb\_ph:\*

7: gb\_p11:\*

8: gb\_p12:\*

9: gb\_pr1:\*

10: gb\_pr2:\*

11: gb\_pr3:\*

12: gb\_ro:\*

13: gb\_sts:\*

14: qb\_sy:\*

15: qb\_un:\*

16: qb\_v1:\*

17: em\_fun:\*

18: em\_hum1:\*

19: em\_hum2:\*

20: em\_in:\*

21: em\_om:\*

22: em\_or:\*

23: em\_ov:\*

24: em\_pat:\*

25: em\_ph:\*

26: em\_pl:\*

27: em\_ro:\*

28: em\_sts:\*

29: em\_sy:\*

30: em\_un:\*

31: em\_v1:\*

32: qb\_htc1:\*

33: qb\_htc2:\*

34: qb\_in1:\*

35: qb\_in2:\*

36: em\_bal:\*

37: em\_ba2:\*

38: em\_hun3:\*

39: em\_hun4:\*

40: qb\_pr4:\*

41: qb\_htc3:\*

42: qb\_htc4:\*

43: qb\_htc5:\*

44:

45: qb\_htg7:\*

46: em\_htg1:\*

47: em\_htc2:\*

48: em\_htc3:\*

49: em\_hums:\*

50: qb\_p13:\*

51: qb\_pr5:\*

52: qb\_htg8:\*

53: qb\_htc9:\*

54: qb\_htc10:\*

55: qb\_htg11:\*

56: qb\_htg12:\*

57: qb\_htg13:\*

58: qb\_htg14:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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c 1	88.8	0.5	10 HSUDLRN2	X05250 Human LDL-r
c 2	87.4	0.5	108 HS67803	U67803 Human small M
c 3	84.4	0.5	103 HUMAICCE21	87896 Human carci M
c 4	83	0.5	108 HSUDL12	X05248 Human LDL-r
c 5	82.2	0.5	107 9 HUMAICCE162	M87924 Human carci
c 6	79.8	0.4	108 10 HSUDLRD1	X05249 Human LDL-r
c 7	79.8	0.4	108 10 HSUDLRD2	X05251 Human LDL-r
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c 12	76.2	0.4	108 11 HSUD7808	U67808 Human small X57789 Human sequ
c 13	75	0.4	103 13 HS81C8R	HS81C8R Human sequ
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c 16	74	0.4	103 9 HUMAICCE221	M14180 Human low d
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c 19	72	0.4	90 9 HUMUDLRF1	X05251 Human LDL-r
c 20	72	0.4	105 13 G32743	K03555 Human low d
c 21	71.2	0.4	108 13 G43535	A009531 HUM
c 22	70.4	0.4	97 9 HUMUDLRA2	G43535 WIAF-2393-S
c 23	70.2	0.4	108 10 HSUDLRD1	M14180 Human low d
c 24	70.2	0.4	108 10 HSUDLRD2	X05249 Human LDL-r
c 25	70.2	0.4	110 11 HSUD7807	M87807 Human small
c 26	69.8	0.4	90 9 HUMUDLRF1	U67803 Human small
c 27	69.8	0.4	104 9 HUMAICCE272	K03555 Human low d
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RESULT 1  
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 LOCUS HSLDRN2  
 DEFINITION Human LDL-receptor gene intron 14 fragment  
 ACCESSION PRI (normal gene).  
 VERSION X0250  
 KEYWORDS  
 SOURCE  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;  
 Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 108)  
 AUTHORS Hosthemke, B., Beisiegel, U., Dunning, A., Havinga, J.R.,  
 Williamson, R. and Humphries, S.  
 TITLE Unequal crossing-over between two alu-repetitive sequence; low density lipoprotein receptor.  
 JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)  
 MEDLINE 87161901  
 COMMENT See X05252 for deletion junction  
 Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.

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 Best Local Similarity 88.9%; Pred. No. 0.00015;  
 Matches 96; Conservative 0; Mismatches 12; Indels 0; Gaps 0;  
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QY 13530 AGTAGCTGGGATTACAGGCATGCAACCATGCCCTGGTAATTGT 13577  
 Db 48 AGTACGCTGGGATTACAGGCACCTGCCACAGCCCTGGTAATTGT 1

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 HSU67803/C  
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 ACCESSION PRI  
 VERSION U67803  
 KEYWORDS Alu.  
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 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 108)  
 AUTHORS Shaikh, I.H., Roy, A.M., Kim, J., Batzer, M.A. and Deininger, P.L.  
 TITLE cDNAs derived from primary and small cytoplasmic Alu (scAlu) transcripts  
 JOURNAL J. Mol. Biol. 271 (2), 222-234 (1997)  
 MEDLINE 97415756  
 REFERENCE 2 (bases 1 to 108)  
 AUTHORS Shaikh, I.H., Kim, J., Batzer, M.A. and Deininger, P.L.  
 TITLE Direct Submission  
 JOURNAL Children's Hospital of Philadelphia, 104F Abramson Research Center, 34th and Civic Center Blvd., Philadelphia, PA 19104, USA  
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 /rpt\_type=dispersed  
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 BASE COUNT 23 a 39 c 30 g 16 t  
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 Best Local Similarity 93.8%; Pred. No. 0.00024; Mismatches 6; Indels 0; Gaps 0;  
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QY 12882 GTAGAGATGGGTTGGCCGGTTAGCCAGATGTCCTGATCTGACCTCGTGATCC 12941  
 Db 97 GTAGAGACGGGGTCACTTGTAGCCAGATGTCCTGATCTGACCTCGTGATCC 38

QY 12942 ACCGGCTCGCCCTCCAAGTGCAGGGATACAGGC 12978  
 Db 37 GCGCGCTCGGCTCCAAGTGCAGGGATACAGGC 1

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RESULT 3  
 HUMALCE221/C  
 LOCUS HUMALCE221 103 bp ss-RNA  
 DEFINITION Human carcinoma cell-derived Alu RNA transcript,  
 ACCESSION M87996  
 VERSION M87996.1  
 KEYWORDS Alu repeat.  
 SOURCE  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 103)  
 AUTHORS Sinnott, D., Richer, C., Deragon, J.-M. and Labuda, D.  
 TITLE Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences  
 J. Mol. Biol. (1992) In press  
 FEATURES  
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 /note="male embryo carcinoma cDNA to other RNA."  
 /tissue\_type="carcinoma"  
 /cell\_line="NTera2D1"  
 /dev\_stage="embryo"  
 /sex="male"  
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BASE COUNT 25 a 27 c 33 g 18 t  
 ORIGIN

Query Match 0.5%; Score 84.4; DB 9; Length 103;  
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QY 12746 CTGGAGCGCAAGGGTGGATCTGGGTCACTGCCACCTCTGGCTCCCGGTCAAGTGAT 12805  
 Db 103 CTGGAGCGCAAGGGTGGATCTGGGTCACTGCCACCTCTGGCTCCCGGTCAAGTGAT 44

QY 12806 TCTCCCTGCTTAGCCCTCCGGACTGAGCTGGACTACAGGCCA 12847  
 Db 43 TCTCCCTGCTTAGCTCCGGACTGAGCTGGATACAGGCCA 2

---

RESULT 4  
 HSLDL12  
 LOCUS HSLDL12  
 DEFINITION Human LDL-receptor gene intron 12 fragment  
 ACCESSION PRI (normal gene) LDL - low density lipoprotein.  
 VERSION X05248  
 KEYWORDS  
 SOURCE  
 ORGANISM Homo sapiens

RESULT 6  
 HSLDRD1 HSLDRD1 108 bp DNA PRI 20-MAY-1992  
 LOCUS Human LDL-receptor mutated gene with intron 12 deletion junction.  
 DEFINITION X05249  
 ACCESSION X05249.1 GI:34335  
 VERSION Alu repetitive sequence; low density lipoprotein receptor.  
 KEYWORDS human.  
 SOURCE Homo sapiens  
 ORGANISM Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;  
 PRIMATES; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 108)  
 AUTHORS Horsthemke,B., Beisiegel,U., Dunning,A., Havinga,J.R.,  
 Williamson,R. and Humphries,S.  
 TITLE Unequal crossing-over between two alu repetitive DNA sequences in  
 the low-density-lipoprotein-receptor gene. A possible mechanism for  
 the defect in a patient with familial hypercholesterolaemia  
 EUR. J. Biochem. 164 (1), 77-81 (1987),  
 87161901  
 COMMENT see X05249 for deletion junction  
 Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.

FEATURES source  
 1. .108  
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 1. .108  
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 1. .108  
 /note="intron XIII fragment"  
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 ORIGIN

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 Best Local Similarity 86.0%; Pred. No. 0.0011; Matches 92; Mismatches 0; Indels 0; Gaps 0;  
 Alu repeat.  
 SOURCE  
 ORGANISM Homo sapiens male embryo carcinoma CDNA to other RNA.  
 PRIMATES; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 107)  
 AUTHORS Simnett,D., Richer,C., Deragon,J.-M. and Labuda,D.  
 TITLE Alu RNA analysis in human embryonal carcinoma cells. Model of  
 post-transcriptional selection of master sequences  
 J. Mol. Biol. (1992) In press  
 FEATURES source  
 1. .107  
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 /sex="male"  
 /tissue\_type="carcinoma"  
 BASE COUNT 28 a 30 c 35 g 14 t  
 ORIGIN

RESULT 5  
 HUMALCE162/C HUMALCE162 107 bp ss-RNA PRI 15-APR-1994  
 DEFINITION Human carcinoma cell-derived Alu RNA transcript, clone CE162.  
 ACCESSION M87924  
 VERSION M87924.1 GI:174871  
 KEYWORDS Alu repeat.  
 SOURCE Homo sapiens male embryo carcinoma CDNA to other RNA.  
 ORGANISM Homo sapiens  
 PRIMATES; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eukaryota; Primate; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 107)  
 AUTHORS Simnett,D., Richer,C., Deragon,J.-M. and Labuda,D.  
 TITLE Alu RNA analysis in human embryonal carcinoma cells. Model of  
 post-transcriptional selection of master sequences  
 J. Mol. Biol. (1992) In press  
 FEATURES source  
 1. .107  
 /organism="Homo sapiens"  
 /db\_xref=taxon:9606"  
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 Alu repeat.  
 SOURCE  
 ORGANISM Homo sapiens male embryo carcinoma CDNA to other RNA.  
 PRIMATES; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 107)  
 AUTHORS Simnett,D., Richer,C., Deragon,J.-M. and Labuda,D.  
 TITLE Alu RNA analysis in human embryonal carcinoma cells. Model of  
 post-transcriptional selection of master sequences  
 J. Mol. Biol. (1992) In press  
 FEATURES source  
 1. .107  
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 /cell\_line=Ntera2B1"  
 /dev\_state="embryo"  
 /sex="male"  
 /tissue\_type="carcinoma"  
 BASE COUNT 28 a 30 c 35 g 14 t  
 ORIGIN

RESULT 7  
 HSLDRD2/C HSLDRD2 108 bp DNA PRI 20-MAY-1992  
 DEFINITION Human LDL-receptor mutated gene with intron 14 deletion junction.  
 ACCESSION X05251  
 VERSION X05251.1 GI:24336  
 KEYWORDS Alu repetitive sequence; low density lipoprotein receptor.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 PRIMATES; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 108)  
 AUTHORS Horsthemke,B., Beisiegel,U., Dunning,A., Havinga,J.R.,  
 Williamson,R. and Humphries,S.  
 TITLE Unequal crossing-over between two alu repetitive DNA sequences in  
 the low-density-lipoprotein-receptor gene. A possible mechanism for  
 the defect in a patient with familial hypercholesterolaemia  
 EUR. J. Biochem. 164 (1), 77-81 (1987)



Utah, Dept. of Human Genetics  
 2160 Eccles Institute of Human Genetics  
 Salt Lake City, UT 84112  
 e-mail: stsc@corona.med.utah.edu  
 Primer A: AGAGGTTGCAGTGACCAAA  
 Primer B: TTTTCCCTCTACTACT  
 End to label: Primer B  
 PCR Profile:  
 Initial Denaturation: 94C 300sec  
 Cycles: Denaturation Annealing Extension 5 94 C 10 sec.  
 C 52 C 10 sec. 56 C 10 sec. 72 C 20 sec. Mg<sup>++</sup>: 1.50 mM  
 Gel: Acrylamide 7%, Formamide 32%, Urea 34%  
 Alleles: 1.

FEATURES  
 source  
 primer\_bind  
 BASE COUNT  
 ORIGIN

location/Qualifiers  
 1. .91  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 10. .28  
 /evidence=experimental  
 35 a 20 c 23 g 13 t

RESULT 11  
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 LOCUS HS8IC8R 103 bp DNA STS site 8IC8R DNA from 19q13. 05-SEP-1991  
 DEFINITION Human sequence tagged site 8IC8R DNA from 19q13.  
 ACCESSION X57789  
 VERSION X57789.1 GI:23938  
 KEYWORDS STS; myotonic dystrophy.  
 SOURCE  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 108)  
 AUTHORS Shaikh,T.H., Roy,A.M., Kim,J., Batzer,M.A. and Deininger,P.L.  
 TITLE cDNAs derived from primary and small cytoplasmic Alu (scAlu) transcripts  
 JOURNAL J. Mol. Biol. 271 (2), 222-234 (1997)  
 MEDLINE 97415756  
 REFERENCE 2 (bases 1 to 108)  
 AUTHORS Shaikh,T.H., Kim,J., Batzer,M.A. and Deininger,P.L.  
 TITLE Direct Submission  
 JOURNAL Submitted (22-AUG-1996) Human Genetics and Molecular Biology, The Children's Hospital of Philadelphia, 1004F Abramson Research Center, 3rd and Civic Center Blvd., Philadelphia, PA 19104, USA  
 LOCATION/City  
 FEATURES  
 source  
 1. .108  
 /organism="Homo sapiens"  
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 /clone="TSCALU7"  
 repeat\_region  
 1. .108  
 /note="scAlu"  
 /rpt\_family="Alu"  
 /rpt\_type=dispersed  
 BASE COUNT  
 22 a 37 c 28 g 21 t

RESULT 13  
 HS8IC8R/C  
 LOCUS HS8IC8R 103 bp DNA STS site 8IC8R DNA from 19q13. 05-SEP-1991  
 DEFINITION Human sequence tagged site 8IC8R DNA from 19q13.  
 ACCESSION X57789  
 VERSION X57789.1 GI:23938  
 KEYWORDS STS; myotonic dystrophy.  
 SOURCE  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Mammalia; Eutheria;  
 Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 103)  
 AUTHORS Aldridge,F.L.  
 TITLE Direct Submission  
 JOURNAL Submitted (12-FEB-1991) F.L. Aldridge, ICI Pharmaceuticals, Alderley Park, Macclesfield, Cheshire, SK10 4TG, UK  
 REFERENCE 2 (bases 1 to 103)  
 AUTHORS Butler,R., Riley,J.H., Ogilvie,D.J., Anand,R., Buxton,J., Davies,J., Johnson,K. and Marham,A.F.  
 TITLE Two sequence-tagged sites defining the ends of a 380 kb YAC clone from 19q13  
 JOURNAL Nucleic Acids Res. 19 (17), 4787 (1991)  
 MEDLINE 91367597  
 COMMENT See also X57789 for STS 8IC8L.  
 FEATURES  
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 1. .103  
 /organism="Homo sapiens"  
 /ab\_xref="taxon:9606"  
 /chromosome="19q13"  
 /germline  
 /clone="YAC library: ICI"  
 /clone="8IC8"  
 BASE COUNT  
 29 a 28 c 23 g 22 t 1 others  
 ORIGIN

Query Match 0.4%; Score 77.2; DB 13; Length 103;  
 Best Local Similarity 85.9%; Pred. No. 0 0.086; 0; Gaps 0;  
 Matches 85; Conservative 0; Mismatches 14; Indels 0;  
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 Qy 11326 ACTAGATGGTTCACCATGTTGCCAGATGATCTCCACACTGACTCAAGTGA 11385  
 Db 2 ACTAGAGATAAGTTTACCACTGTGGTGGCCACGCTGGTCAGAACACTGACTTAAGTGA 61  
 Qy 11386 TCCACCCACCACTGTCACCCAAAGTGTGGATTACAGG 11424  
 Db 62 TCCACCCACCTGACCHCCAAAGTGTGGATTACAGG 100

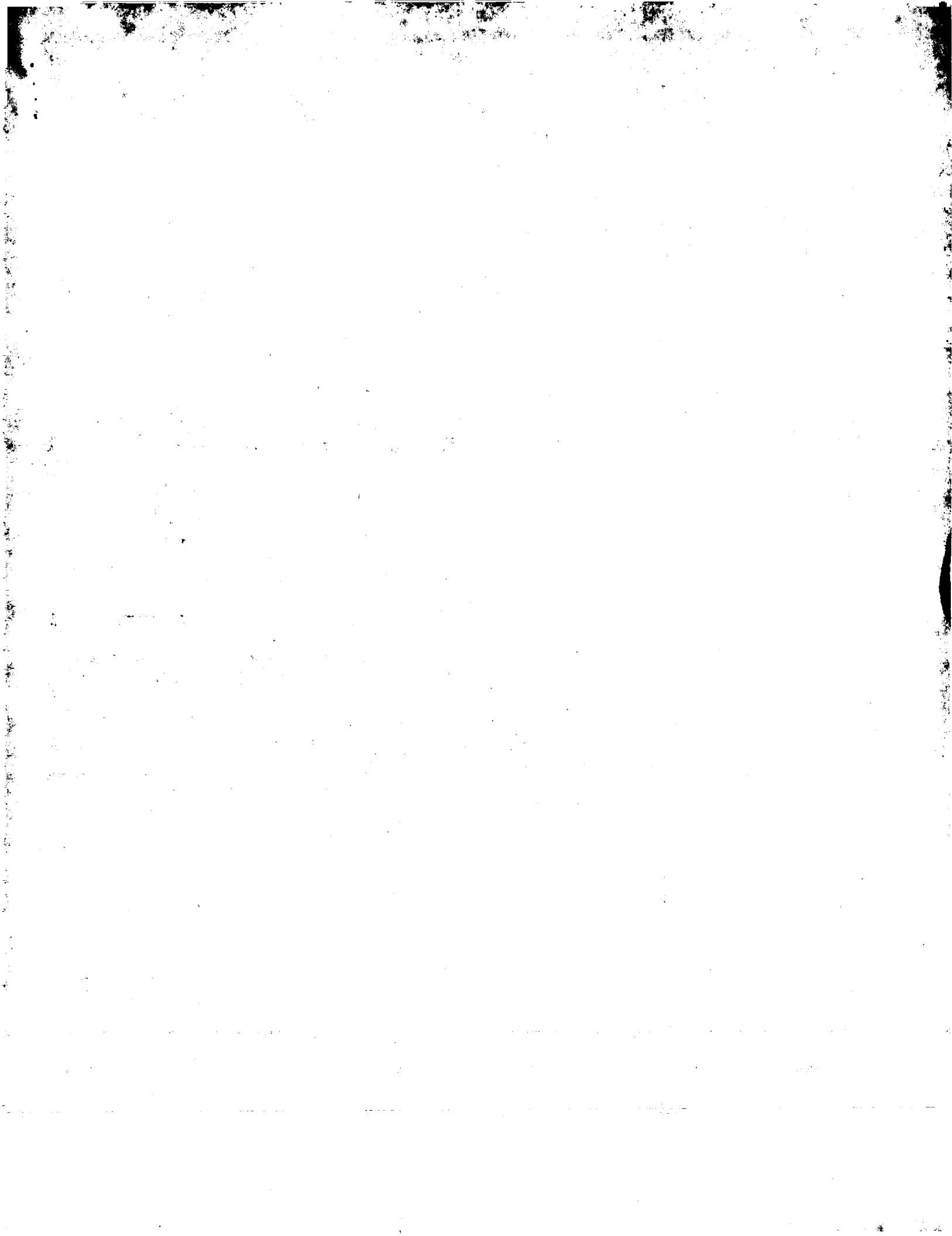
RESULT 12  
 HSU67808/C HSU67808 108 bp RNA DEPICTION Human small cytoplasmic Alu transcript. PRI 01-AUG-1997  
 LOCUS Human small cytoplasmic Alu transcript.  
 DEFINITION Human small cytoplasmic Alu transcript.  
 ACCESSION U67808  
 VERSION U67808.1 GI:2289922  
 KEYWORDS Alu.  
 SOURCE  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 108)  
 AUTHORS Shaikh,T.H., Roy,A.M., Kim,J., Batzer,M.A. and Deininger,P.L.  
 TITLE cDNAs derived from primary and small cytoplasmic Alu (scAlu) transcripts  
 JOURNAL J. Mol. Biol. 271 (2), 222-234 (1997)  
 MEDLINE 97415756  
 REFERENCE 2 (bases 1 to 108)  
 AUTHORS Shaikh,T.H., Kim,J., Batzer,M.A. and Deininger,P.L.  
 TITLE Direct Submission  
 JOURNAL Submitted (22-AUG-1996) Human Genetics and Molecular Biology, The Children's Hospital of Philadelphia, 1004F Abramson Research Center, 3rd and Civic Center Blvd., Philadelphia, PA 19104, USA  
 LOCATION/City  
 FEATURES  
 source  
 1. .108  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="TSCALU7"  
 repeat\_region  
 1. .108  
 /note="scAlu"  
 /rpt\_family="Alu"  
 /rpt\_type=dispersed  
 BASE COUNT  
 22 a 37 c 28 g 21 t

Query Match 0.4%; Score 76.2; DB 11; Length 108;  
 Best Local Similarity 86.6%; Pred. No. 0.012; 0; Gaps 0;  
 Matches 84; Conservative 0; Mismatches 13; Indels 0; Gaps 0;  
 0;  
 Qy 12882 GTAGAGATGGTTCGCGCGTAGCCAGATGGTTCGACCGACCGCGTGCATCC 12941  
 Db 97 GGAAGACGGAGTTACCAATGTTGCCAGCGCAGGTCATCCCTGACCCTGTGATCC 38  
 Qy 12942 ACCGGCTCGCCCTCAAAGTGTGGATACAGG 12978  
 Db 37 ACCGGACTTGCCCTCAAAGTGTGGATACAGG 1

REFERENCE	1	(bases 1 to 103)
AUTHORS	Alridge,F.L.	
TITLE	Direct Submission	
JOURNAL	Submitted (12-FEB-1991) F.L. Alridge, ICI Pharmaceuticals, Alderley Park, Macclesfield, Cheshire, SK10 4TG, UK	
REFERENCE	2	(bases 1 to 103)
AUTHORS	Butler,R., Riley,J.H., Ogilvie,D.J., Anand,R., Buxton,J., Davies,J., Johnson,K. and Markham,A.F.	
TITLE	Two sequence-tagged sites defining the ends of a 380 kb YAC clone from 19q13	
JOURNAL	Nucleic Acids Res. 19 (17), 4787 (1991)	
MEDLINE	91367697	
COMMENT	See also X57788 for SRS 8IC8L.	
FEATURES	Location/Qualifiers	
source	1. .103 /clone_id="YAC library: ICI" /clone_lib="YAC library: ICI" /clone_name="Homo sapiens" /db_xref="taxon:9606" /chromosome="19q13" /germline	
BASE COUNT	29 a 28 c 23 g 22 t 1 others	
ORIGIN		
RESULT	14	
HUMANCE43/c	HUMANCE43	110 bp ss-RNA
DEFINITION	Human carcinoma cell-derived Alu RNA transcript, clone CE43.	PRI
ACCESSION	M87900	15-APR-1994
VERSION	M87900.1	GI:174876
KEYWORDS	Alu repeat.	
SOURCE	Hom sapiens male embryo carcinoma cDNA to other RNA.	
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 110)
AUTHORS	Sinnett,D., Richer,C., Deragon,J.-M. and Labuda,D.	
TITLE	Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences	
JOURNAL	J. Mol. Biol. (1992) In press	
FEATURES	Location/Qualifiers	
source	1. .110 /organism="Homo sapiens" /db_xref="taxon:9606" /cell_line="Ntera201" /dev_stage="embryo" /sex="male" /tissue_type="carcinoma"	
BASE COUNT	27 a 31 c 34 g 18 t	
ORIGIN		
Query Match	0.4%	Score 74.4; DB 9; Length 110;
Best Local Similarity	80.6%	Pred. No. 0.023; Mismatches 87; Conservative 0; Indels 0; Gaps 0;
Matches		
Oy	12893	GTTGGCCGCGTGTACCCAGGATGCTGTCATCTGACTCTGCGATCCACCGSCTCG 12952
Db	110	GTTGCTCATCTTAGCCAGGCTGGCTTGAACTACTTGAGCTCGCACATCCCTGCTGG 51
RESULTS	15	
QY	12953	CCTCCCAAAGTGCTGGATTACAGGCATGGCCACACCGCTGGCCCG 13000
Db	50	HUMD1D03m5/c HUMD1D03m5 108 bp mRNA
DEFINITION	Human HepG2 partial cDNA, clone hmd1d03m5.	PRI
ACCESSION	D16965	04-FEB-1999
VERSION	D16965.1	
KEYWORDS	gene signature.	
SOURCE	Homo sapiens Male cell_line:HepG2 cDNA to mRNA, clone_lib:Kiserau.	
ORGANISM	Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 108)
AUTHORS	Matoba,R.	
TITLE	Direct Submission	
JOURNAL	Submitted (21-JUL-1993) to the DDBJ/EMBL/GenBank databases. Ryo Matoba, Osaka University, Institute for Molecular and Cellular Bio 1-3, Yamada-oka, Suita, Osaka 565, Japan.	
COMMENT		
MEDLINE	94357437	Tel:81-6-877-5111(ex.3314), Fax:81-6-877-1922
Db	101	GCCTTAATTCGCACTTGGAGGTGAGGTGGATCACTAAGGTCAGGAGTC 42
Qy	8193	GAGACAGCTTGCCAACATGGTGAACCCGTCTCCACT 8232
Db	41	TTGACAGCCGGCAGACATGGTGAACCCGTCTCCACT 2
RESULT	14	
HUMANCE43/c	HUMANCE43	110 bp ss-RNA
DEFINITION	Human carcinoma cell-derived Alu RNA transcript, clone CE43.	PRI
ACCESSION	M87900	15-APR-1994
VERSION	M87900.1	GI:174876
KEYWORDS	Alu repeat.	
SOURCE	Hom sapiens male embryo carcinoma cDNA to other RNA.	
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 110)
AUTHORS	Sinnett,D., Richer,C., Deragon,J.-M. and Labuda,D.	
TITLE	Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences	
JOURNAL	J. Mol. Biol. (1992) In press	
FEATURES	Location/Qualifiers	
source	1. .108 /organism="Homo sapiens" /db_xref="taxon:9606" /cell_line="HepG2" /clone_id="Kiserau"	
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RESULT	15	
QY	13467	GATCTGGCCTATGCCACCTCTGCTCCGGCTCAAGTGATCTCCGAGCAGGCC 13526
Db	108	GATCTGGCCTACTGCAACCTCTGCTCCGGGNTCAAGGACTCTCCGCTCAGGCC 49
QY	13527	CGGAGTAGCTGGATACAGGCATGATCACCATCCCTGGTAATT 13575
Db	48	CTGAGTAGCTGGATACA-GCATGCCAACACNCTGGCTTTAT 1
RESULTS	15	
QY	12953	CCTCCCAAAGTGCTGGATTACAGGCATGGCCACACCGCTGGCCCG 13000
Db	50	HUMD1D03m5/c HUMD1D03m5 108 bp mRNA
DEFINITION	Human HepG2 partial cDNA, clone hmd1d03m5.	PRI
ACCESSION	D16965	04-FEB-1999
VERSION	D16965.1	
KEYWORDS	gene signature.	
SOURCE	Homo sapiens Male cell_line:HepG2 cDNA to mRNA, clone_lib:Kiserau.	
ORGANISM	Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 108)
AUTHORS	Matoba,R.	
TITLE	Direct Submission	
JOURNAL	Submitted (21-Jul-1993) to DDBJ by: Ryo Matoba	
COMMENT		
MEDLINE	94357437	The addition of 5'-coding information to a 3'-directed cDNA library improves analysis of gene expression
Gene	146 (2), 199-207 (1994)	
Db	101	GCCTTAATTCGCACTTGGAGGTGAGGTGGATCACTAAGGTCAGGAGTC 42
Qy	8193	GAGACAGCTTGCCAACATGGTGAACCCGTCTCCACT 8232
Db	41	TTGACAGCCGGCAGACATGGTGAACCCGTCTCCACT 2
RESULT	14	
HUMANCE43/c	HUMANCE43	110 bp ss-RNA
DEFINITION	Human carcinoma cell-derived Alu RNA transcript, clone CE43.	PRI
ACCESSION	M87900	15-APR-1994
VERSION	M87900.1	GI:174876
KEYWORDS	Alu repeat.	
SOURCE	Hom sapiens male embryo carcinoma cDNA to other RNA.	
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 110)
AUTHORS	Sinnett,D., Richer,C., Deragon,J.-M. and Labuda,D.	
TITLE	Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences	
JOURNAL	J. Mol. Biol. (1992) In press	
FEATURES	Location/Qualifiers	
source	1. .108 /organism="Homo sapiens" /db_xref="taxon:9606" /cell_line="HepG2" /clone_id="Kiserau"	
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ORIGIN		
RESULT	15	
QY	13467	GATCTGGCCTATGCCACCTCTGCTCCGGCTCAAGTGATCTCCGAGCAGGCC 13526
Db	108	GATCTGGCCTACTGCAACCTCTGCTCCGGGNTCAAGGACTCTCCGCTCAGGCC 49
QY	13527	CGGAGTAGCTGGATACAGGCATGATCACCATCCCTGGTAATT 13575
Db	48	CTGAGTAGCTGGATACA-GCATGCCAACACNCTGGCTTTAT 1
RESULTS	15	
QY	12953	CCTCCCAAAGTGCTGGATTACAGGCATGGCCACACCGCTGGCCCG 13000
Db	50	HUMD1D03m5/c HUMD1D03m5 108 bp mRNA
DEFINITION	Human HepG2 partial cDNA, clone hmd1d03m5.	PRI
ACCESSION	D16965	04-FEB-1999
VERSION	D16965.1	
KEYWORDS	gene signature.	
SOURCE	Homo sapiens Male cell_line:HepG2 cDNA to mRNA, clone_lib:Kiserau.	
ORGANISM	Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 108)
AUTHORS	Matoba,R.	
TITLE	Direct Submission	
JOURNAL	Submitted (21-Jul-1993) to DDBJ by: Ryo Matoba	
COMMENT		
MEDLINE	94357437	The addition of 5'-coding information to a 3'-directed cDNA library improves analysis of gene expression
Gene	146 (2), 199-207 (1994)	
Db	101	GCCTTAATTCGCACTTGGAGGTGAGGTGGATCACTAAGGTCAGGAGTC 42
Qy	8193	GAGACAGCTTGCCAACATGGTGAACCCGTCTCCACT 8232
Db	41	TTGACAGCCGGCAGACATGGTGAACCCGTCTCCACT 2
RESULT	14	
HUMANCE43/c	HUMANCE43	110 bp ss-RNA
DEFINITION	Human carcinoma cell-derived Alu RNA transcript, clone CE43.	PRI
ACCESSION	M87900	15-APR-1994
VERSION	M87900.1	GI:174876
KEYWORDS	Alu repeat.	
SOURCE	Hom sapiens male embryo carcinoma cDNA to other RNA.	
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 110)
AUTHORS	Sinnett,D., Richer,C., Deragon,J.-M. and Labuda,D.	
TITLE	Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences	
JOURNAL	J. Mol. Biol. (1992) In press	
FEATURES	Location/Qualifiers	
source	1. .108 /organism="Homo sapiens" /db_xref="taxon:9606" /cell_line="HepG2" /clone_id="Kiserau"	
BASE COUNT	28 a 23 c 38 g 17 t 2 others	
ORIGIN		
RESULT	15	
QY	13467	GATCTGGCCTATGCCACCTCTGCTCCGGCTCAAGTGATCTCCGAGCAGGCC 13526
Db	108	GATCTGGCCTACTGCAACCTCTGCTCCGGGNTCAAGGACTCTCCGCTCAGGCC 49
QY	13527	CGGAGTAGCTGGATACAGGCATGATCACCATCCCTGGTAATT 13575
Db	48	CTGAGTAGCTGGATACA-GCATGCCAACACNCTGGCTTTAT 1
RESULTS	15	
QY	12953	CCTCCCAAAGTGCTGGATTACAGGCATGGCCACACCGCTGGCCCG 13000
Db	50	HUMD1D03m5/c HUMD1D03m5 108 bp mRNA
DEFINITION	Human HepG2 partial cDNA, clone hmd1d03m5.	PRI
ACCESSION	D16965	04-FEB-1999
VERSION	D16965.1	
KEYWORDS	gene signature.	
SOURCE	Homo sapiens Male cell_line:HepG2 cDNA to mRNA, clone_lib:Kiserau.	
ORGANISM	Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 108)
AUTHORS	Matoba,R.	
TITLE	Direct Submission	
JOURNAL	Submitted (21-Jul-1993) to DDBJ by: Ryo Matoba	
COMMENT		
MEDLINE	94357437	The addition of 5'-coding information to a 3'-directed cDNA library improves analysis of gene expression
Gene	146 (2), 199-207 (1994)	
Db	101	GCCTTAATTCGCACTTGGAGGTGAGGTGGATCACTAAGGTCAGGAGTC 42
Qy	8193	GAGACAGCTTGCCAACATGGTGAACCCGTCTCCACT 8232
Db	41	TTGACAGCCGGCAGACATGGTGAACCCGTCTCCACT 2
RESULT	14	
HUMANCE43/c	HUMANCE43	110 bp ss-RNA
DEFINITION	Human carcinoma cell-derived Alu RNA transcript, clone CE43.	PRI
ACCESSION	M87900	15-APR-1994
VERSION	M87900.1	GI:174876
KEYWORDS	Alu repeat.	
SOURCE	Hom sapiens male embryo carcinoma cDNA to other RNA.	
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 110)
AUTHORS	Sinnett,D., Richer,C., Deragon,J.-M. and Labuda,D.	
TITLE	Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences	
JOURNAL	J. Mol. Biol. (1992) In press	
FEATURES	Location/Qualifiers	
source	1. .108 /organism="Homo sapiens" /db_xref="taxon:9606" /cell_line="HepG2" /clone_id="Kiserau"	
BASE COUNT	28 a 23 c 38 g 17 t 2 others	
ORIGIN		
RESULT	15	
QY	13467	GATCTGGCCTATGCCACCTCTGCTCCGGCTCAAGTGATCTCCGAGCAGGCC 13526
Db	108	GATCTGGCCTACTGCAACCTCTGCTCCGGGNTCAAGGACTCTCCGCTCAGGCC 49
QY	13527	CGGAGTAGCTGGATACAGGCATGATCACCATCCCTGGTAATT 13575
Db	48	CTGAGTAGCTGGATACA-GCATGCCAACACNCTGGCTTTAT 1
RESULTS	15	
QY	12953	CCTCCCAAAGTGCTGGATTACAGGCATGGCCACACCGCTGGCCCG 13000
Db	50	HUMD1D03m5/c HUMD1D03m5 108 bp mRNA
DEFINITION	Human HepG2 partial cDNA, clone hmd1d03m5.	PRI
ACCESSION	D16965	04-FEB-1999
VERSION	D16965.1	
KEYWORDS	gene signature.	
SOURCE	Homo sapiens Male cell_line:HepG2 cDNA to mRNA, clone_lib:Kiserau.	
ORGANISM	Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 108)
AUTHORS	Matoba,R.	
TITLE	Direct Submission	
JOURNAL	Submitted (21-Jul-1993) to DDBJ by: Ryo Matoba	
COMMENT		
MEDLINE	94357437	The addition of 5'-coding information to a 3'-directed cDNA library improves analysis of gene expression
Gene	146 (2), 199-207 (1994)	
Db	101	GCCTTAATTCGCACTTGGAGGTGAGGTGGATCACTAAGGTCAGGAGTC 42
Qy	8193	GAGACAGCTTGCCAACATGGTGAACCCGTCTCCACT 8232
Db	41	TTGACAGCCGGCAGACATGGTGAACCCGTCTCCACT 2
RESULT	14	
HUMANCE43/c	HUMANCE43	110 bp ss-RNA
DEFINITION	Human carcinoma cell-derived Alu RNA transcript, clone CE43.	PRI
ACCESSION	M87900	15-APR-1994
VERSION	M87900.1	GI:174876
KEYWORDS	Alu repeat.	
SOURCE	Hom sapiens male embryo carcinoma cDNA to other RNA.	
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 110)
AUTHORS	Sinnett,D., Richer,C., Deragon,J.-M. and Labuda,D.	
TITLE	Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences	
JOURNAL	J. Mol. Biol. (1992) In press	
FEATURES	Location/Qualifiers	
source	1. .108 /organism="Homo sapiens" /db_xref="taxon:9606" /cell_line="HepG2" /clone_id="Kiserau"	
BASE COUNT	28 a 23 c 38 g 17 t 2 others	
ORIGIN		
RESULT	15	
QY	13467	GATCTGGCCTATGCCACCTCTGCTCCGGCTCAAGTGATCTCCGAGCAGGCC 13526
Db	108	GATCTGGCCTACTGCAACCTCTGCTCCGGGNTCAAGGACTCTCCGCTCAGGCC 49
QY	13527	CGGAGTAGCTGGATACAGGCATGATCACCATCCCTGGTAATT 13575
Db	48	CTGAGTAGCTGGATACA-GCATGCCAACACNCTGGCTTTAT 1
RESULTS	15	
QY	12953	CCTCCCAAAGTGCTGGATTACAGGCATGGCCACACCGCTGGCCCG 13000
Db	50	HUMD1D03m5/c HUMD1D03m5 108 bp mRNA
DEFINITION	Human HepG2 partial cDNA, clone hmd1d03m5.	PRI
ACCESSION	D16965	04-FEB-1999
VERSION	D16965.1	
KEYWORDS	gene signature.	
SOURCE	Homo sapiens Male cell_line:HepG2 cDNA to mRNA, clone_lib:Kiserau.	
ORGANISM	Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 108)
AUTHORS	Matoba,R.	
TITLE	Direct Submission	
JOURNAL	Submitted (21-Jul-1993) to DDBJ by: Ryo Matoba	
COMMENT		
MEDLINE	94357437	The addition of 5'-coding information to a 3'-directed cDNA library improves analysis of gene expression
Gene	146 (2), 199-207 (1994)	
Db	101	GCCTTAATTCGCACTTGGAGGTGAGGTGGATCACTAAGGTCAGGAGTC 42
Qy	8193	GAGACAGCTTGCCAACATGGTGAACCCGTCTCCACT 8232
Db	41	TTGACAGCCGGCAGACATGGTGAACCCGTCTCCACT 2
RESULT	14	
HUMANCE43/c	HUMANCE43	110 bp ss-RNA
DEFINITION	Human carcinoma cell-derived Alu RNA transcript, clone CE43.	PRI
ACCESSION	M87900	15-APR-1994
VERSION	M87900.1	GI:174876
KEYWORDS	Alu repeat.	
SOURCE	Hom sapiens male embryo carcinoma cDNA to other RNA.	
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 110)
AUTHORS	Sinnett,D., Richer,C., Deragon,J.-M. and Labuda,D.	
TITLE	Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences	
JOURNAL	J. Mol. Biol. (1992) In press	
FEATURES	Location/Qualifiers	
source	1. .108 /organism="Homo sapiens" /db_xref="taxon:9606" /cell_line="HepG2" /clone_id="Kiserau"	
BASE COUNT	28 a 23 c 38 g 17 t 2 others	
ORIGIN		
RESULT	15	
QY	12953	CCTCCCAAAGTGCTGGATTACAGGCATGGCCACACCGCTGGCCCG 13000
Db	50	HUMD1D03m5/c HUMD1D03m5 108 bp mRNA
DEFINITION	Human HepG2 partial cDNA, clone hmd1d03m5.	PRI
ACCESSION	D16965	04-FEB-1999
VERSION	D16965.1	
KEYWORDS	gene signature.	
SOURCE	Homo sapiens Male cell_line:HepG2 cDNA to mRNA, clone_lib:Kiserau.	
ORGANISM	Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.	
REFERENCE	1	(bases 1 to 108)
AUTHORS	Matoba,R.	
TITLE	Direct Submission	
JOURNAL	Submitted (21-Jul-1993) to DDBJ by: Ryo Matoba	
COMMENT		
MEDLINE	94357437	The addition of 5'-coding information to a 3'-directed cDNA library improves analysis of gene expression
Gene	146 (2), 199-207 (1994)	
Db	101	GCCTTAATTCGCACTTGGAGGTGAGGTGGATCACTAAGGTCAGGAGTC 42
Qy	8193	GAGACAGCTTGCCAACATGGTGAACCCGTCTCCACT 8232
Db	41	TTGACAGCCGGCAGACATGGTGAACCCGTCTCCACT 2
RESULT	14	
HUMANCE43/c	HUMANCE43	110 bp ss-RNA
DEFINITION	Human carcinoma cell-derived Alu RNA transcript, clone CE43.	PRI
ACCESSION	M8790	

Wed Jun 21 14:43:34 2000

us-08-852-495c-1\_copy\_196000\_214000.rge



us-08-852-495c-1\_copy\_196000\_214000.rng

GenCore version 4.5									
Copyright (C) 1993 - 2000 CompuGen Ltd.									
OM nucleic - nucleic search, using sw model									
Run on:									
June 17, 2000, 11:43:03 ; Search time 939.94 Seconds (without alignments) 4791.484 Million cell updates/sec									
<b>Title:</b>	US-08-852-495C-1_COPY_196000_214000	<b>Sequence:</b>	1 GATAGGCTCACCTAACCA.....CCATCCAGCTTCACCT 18001	<b>Scoring table:</b>	IDENTITY_NUC	<b>Searched:</b>	31185 seqs., 125096042 residues	<b>Total number of hits satisfying chosen parameters:</b>	4333070
<b>Post-processing:</b>	Minimum Match 0%	<b>Database :</b>	N_Geneseq_36: *	<b>Pred. No.</b>	is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.				
<b>SUMMARIES</b>									
<b>Result NO.</b>	<b>Score</b>	<b>Query Match</b>	<b>Length</b>	<b>DB ID</b>	<b>Description</b>	<b>RESULT</b>	<b>1</b>	<b>ALIGNMENTS</b>	
1	71.8	0.4	108	1	X12095	ID	X12095		
2	71.4	0.4	108	1	X01323	AC	X12095;		
3	68.6	0.4	108	1	X12095	DT	30-MAR-1999 (first entry)		
4	65.6	0.4	100	1	T24892	DE	Human biallelic polymorphic DNA fragment TIGR-A003M18a.		
5	65.2	0.4	103	1	T24213	KW	Polymorphism; biallelic; human; forensic; paternity testing; disease; detection; phenotypic typing; characteristic; infection; hereditary; autoimmune disease; cancer; inflammation; drug; therapy; medicament; treatment; marker; ss.		
6	64	0.4	108	1	T24892	KW	Homo sapiens.		
7	63.8	0.4	108	1	T24892	KW	PA (WIRED ) WHITHEAD INST BIOMEDICAL RES.		
8	60.2	0.3	100	1	T24927	PD	14-MAY-1998.		
9	58.6	0.3	103	1	T24927	PR	05-NOV-1997; U20313.		
10	58.4	0.3	87	1	T24566	PR	06-NOV-1996; US-030455.		
11	57.4	0.3	85	1	09218	PT	New isolated nucleic acid segments from the human genome - used for determining polymorphic forms for use in e.g. forensics, paternity testing or phenotypic typing for disease		
12	57	0.3	100	1	X12085	PT	Claim 1; Page 219; 310PP; English.		
13	56.8	0.3	100	1	X12086	PS	X10269-X12937 are human DNA fragments which contain biallelic polymorphic markers which have been isolated using the primers represented in X05121-X10268. The base occupying the polymorphic site is indicated by the appropriate IUPAC-IUB ambiguity code. These fragments can be used in methods for determining polymorphic forms in an individual for use in e.g. forensics, paternity testing or for phenotypic typing for diseases such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial hypercholesterolemia, polycystic kidney disease, hereditary spheroctosis, von Willebrand's disease, tuberous sclerosis, hereditary haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos syndrome, osteogenesis imperfecta, acute intermittent porphyria, autoimmune diseases, inflammation, cancer, diseases of the nervous system, infection by pathogenic microorganisms, and characteristics such as longevity, appearance (e.g. baldness, obesity), strength, speed, endurance, fertility, and susceptibility to particular drugs or therapeutic treatments. The isolated polymorphic nucleic acid segments can also be used to produce medicaments for the treatment or prophylaxis of such diseases.		
14	56.8	0.3	93	1	T23572	PT	CC	CC	
15	56.4	0.3	82	1	T22836	PT	CC	CC	
16	56.4	0.3	91	1	T22854	PT	CC	CC	
17	55.6	0.3	100	1	X12087	PT	CC	CC	
18	55.4	0.3	106	1	V1611	PT	CC	CC	
19	54.8	0.3	103	1	T20927	PT	CC	CC	
20	54.2	0.3	93	1	T24259	PT	CC	CC	
21	54	0.3	109	1	T23895	PT	CC	CC	
22	53.8	0.3	100	1	X12087	PT	CC	CC	
23	53.8	0.3	100	1	X12085	PT	CC	CC	
24	52.6	0.3	95	1	T23131	PT	CC	CC	
25	52.6	0.3	97	1	T26728	PT	CC	CC	
26	52.4	0.3	87	1	T25566	PT	CC	CC	
27	52.4	0.3	107	1	T2073	PT	CC	CC	
28	52.2	0.3	109	1	T23895	PT	CC	CC	
29	52.2	0.3	69	1	Q29016	PT	CC	CC	
30	52	0.3	69	1	Q29016	PT	CC	CC	
31	52	0.3	110	1	T26288	PT	CC	CC	
32	52	0.3	99	1	T23728	PT	CC	CC	
33	51.6	0.3	99	1	T23728	PT	CC	CC	
34	51	0.3	70	1	N60231	PT	CC	CC	

**RESULT 2**  
 ID X01323  
 AC X01323; standard; DNA; 108 BP.  
 DT 14-APR-1999 (first entry)  
 DE Allelic ladder; HUMFIBRA/FGA allele 27; HUMFIBRA/FGA; AMG;  
 KW D21S11; D8S51; forensic testing; DNA profiling; amelogenin sex test; ss.  
 OS Homo sapiens.  
 DR EP-897426-A2.  
 PD 30-DEC-1998.  
 PR 29-JUN-1998; 305120.  
 PT 28-JUN-1997; GB-013397.  
 PS PA (UKHO) UK SEC STATE HOME DEPT.  
 CC PI Arnold CD, Barber MD, Burke T, Gill P, Gillard SM,  
 PI Griffiths RA, Haywood MD, Johnson PE, Smith CD, Urquhart AJ;  
 DR WPI; 99-07890/05.  
 PT New alleles and allelic ladder mixtures - useful as a control sample  
 for DNA profiling in forensic environments  
 CC Sequence 1; Page 39; 52pp; English.  
 This sequence represents an allelic ladder, used in the allelic ladder  
 mixture of the invention. The allelic ladder mixture comprises at least  
 one of the following allelic ladders: (i) at least one allele for locus  
 HUMWFR31/A; (ii) one allele for locus HUMHOL; (iii) at least one allele  
 for locus D8S1179; (iv) at least one allele for locus HUMFIBRA/FGA;  
 CC (v) at least one allele for locus D21S11; and (vi), an allele for locus  
 D18S51. The alleles or allelic ladders are useful in forensic tests for  
 comparison with a sample DNA profile, when the profile is based on  
 analysis of at least one loci of HUMWFR31/A, HUMHOL, D8S1179,  
 HUMFIBRA/FGA, D21S11, D8S51 or AMG (amelogenin sex test). DNA profiling  
 is useful in anthropological, paternity/maternity, crime detection and  
 other forensic environments. The new allelic ladders have an improved  
 range and coverage of DNA, and include a number of rare alleles which  
 offers improved identification of an unknown sample.  
 CC Sequence 108 BP; 0 A; 31 C; 0 G; 77 T;

**RESULT 3**  
 ID X12095/c  
 AC X12095; standard; DNA; 108 BP.  
 DT 30-MAR-1999 (first entry)  
 DE Human biallelic polymorphic DNA fragment TIGR-A003M18a.  
 KW Polymorphism; biallelic; human; forensic; paternity testing; disease;  
 detection; phenotypic typing; characteristic; infection; hereditary;  
 autoimmune disease; cancer; inflammation; drug; therapy; medicament;  
 treatment; marker; ss.  
 OS Homo sapiens.  
 DR WO9820165-A2.  
 PD 14-MAY-1998.  
 PR 05-NOV-1997; U20313.  
 PT 06-NOV-1996; US-030455.  
 PA (WHED ) WHITEHEAD INST BIOMEDICAL RRS.  
 DR Hudson T, Lander ES, Wang D;  
 DR WPI; 98-286974/25.  
 PT New isolated nucleic acid segments from the human genome - used for  
 determining polymorphic forms for use in e.g. forensics, paternity  
 testing or phenotypic typing for disease  
 PS Claim 1; Page 219; 310pp; English.  
 CC X10269-X12937 are human DNA fragments which contain biallelic polymorphic

**RESULT 4**  
 ID T24892/c  
 AC T24892; standard; cDNA to mRNA; 100 BP.  
 DT 05-NOT-1996 (first entry)  
 DE Human gene signature HUMGS06998.  
 KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;  
 human; cloning; mapping; non-biased library; diagnosis; detection;  
 cell typing; abnormal cell function; ss.  
 OS Homo sapiens.  
 DR WO9514772-A1.  
 PD 01-JUN-1995.  
 PR 11-NOV-1994; J01916.  
 DR 12-NOV-1993; JP-355504.  
 PA (MATS-) MATSUBARA K.  
 PA (OKUBI-) OKUBO K.  
 PI Matsubara K, Okubo K;  
 DR WPI; 95-200931/27.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g.  
 for diagnosis of abnormal cell function, by preparing cDNA that  
 reflects relative abundance of corresp. mRNA in specific human  
 tissues  
 PS Claim 1; Page 172; 2245pp; Japanese.  
 PT A single-stranded DNA (or its complementary strand or the corresp.  
 double-stranded DNA) which comprises one of the 7837 "GS" sequences  
 given in T19001-T26837 and which is able to hybridise to part of  
 human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)  
 sequences were obtained from 3'-directed cDNA libraries prepared  
 from various human tissues; synthesis of cDNA was initiated from the  
 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-  
 untranslated sequence is unique to a particular mRNA species, almost  
 all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library  
 is constructed so as to reflect accurately the relative abundance of  
 different mRNAs in the particular tissue from which it was derived.  
 The appearance frequency of a given GS in cDNA library can be  
 determined (esp using primers and probes derived from the GS  
 sequences) as a means of diagnosing abnormal cell function or for  
 recognising different cell types.  
 CC Sequence 100 BP; 28 A; 22 C; 25 G; 22 T;

Query Match	0.4%	Score 65.6;	DB 1;	Length 100;	DT 07-NOV-1996 (first entry)
Best Local Similarity	77.8%	Pred. No.	0.18;	Length 100;	DE Human gene signature HUMGS07131.
Matches	77;	Conservative	0;	Mismatches	KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;
					KW human; cloning; mapping; non-biased library; diagnosis; detection;
					KW cell typing; abnormal cell function; ss.
OY	12707	TTTTTTTTTGTGACTGAGTCCTGCTCTGCTCAAGGGTGTGAGGCCAG3TGTTGGGATC	12766	OS Homo sapiens.	
					PN WO9514772-A1.
Db	100	TTTTGTTGTTCAACAGAGTCAGTCCTGTCACCCAGGGNGAGTGCAANGTGCAATC	41	PD 01-JUN-1995.	
OY	12767	TGGCTCACTGCAACCCAGTCGCTCCGGGTCAGTGAT	12805	PF 11-NOV-1994; J01916.	
Db	40	TCAGCTNATGCAATCTGCCCTCCAGGTCAGCGAT	2	PR 12-NOV-1993; JP-355504.	
RESULT	5			PA (MATS/.) MATSUBARA K.	
ID	T26213/C			PA (OKUB/.) OKUBO K.	
AC	T26213	standard; cDNA to mRNA; 103 BP.		PI Matsubara K, Okubo K;	
DT	13-NOV-1996 (first entry)			DR WI; 95-20631/27.	
DE	Human gene signature HUMGS08452.			PT Identifying gene signatures in 3'-directed human cDNA library - e.g.	
KW	Gene signature; messenger RNA; mRNA; relative abundance; frequency;			PT for diagnosis of abnormal cell function, by preparing cDNA that	
KW	human; cloning; mapping; non-biased library; diagnosis; detection;			PT reflects relative abundance of corresp. mRNA in specific human	
KW	cell typing; abnormal cell function; ss.			PT tissues.	
OS	Homo sapiens.			PS Claim 1; Page 1/48; 2245pp; Japanese.	
OS	W09514772-A1.			CC A single-stranded DNA (or its complementary strand or the corresp.	
PN				CC double-stranded DNA) which comprises one of the 7837 "GS" sequences	
PD				CC given in T19001-T26837 and which is able to hybridise to part of	
PP	01-JUN-1995;			CC human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)	
PP	11-NOV-1994;	J01916.		CC sequences were obtained from 3'-directed cDNA libraries prepared	
PR	12-NOV-1993;	JP-355504.		CC from various human tissues; synthesis of cDNA was initiated from the	
PA	(MATS/.) MATSUBARA K.			CC 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-	
PA	(OKUB/.) OKUBO K.			CC untranslated sequence is unique to a particular mRNA species almost	
DR	Matsubara K, Okubo K;			CC all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library	
WPI	95-20631/27.			CC is constructed so as to reflect accurately the relative abundance of	
PT	Identifying gene signatures in 3'-directed human cDNA library - e.g.			CC different mRNAs in the particular tissue from which it was derived.	
PT	for diagnosis of abnormal cell function, by preparing cDNA that			CC The appearance frequency of a given GS in a cDNA library can be	
PT	reflects relative abundance of corresp. mRNA in specific human			CC determined (esp. using primers and probes derived from the GS	
PT	tissues			CC sequences) as a means of diagnosing abnormal cell function or for	
PS	Claim 1; Page 2029; 2245pp; Japanese.			CC recognising different cell types.	
CC	A single-stranded DNA (or its complementary strand or the corresp.			SQ Sequence 108 BP; 34 A; 31 C; 26 G; 15 T;	
CC	double-stranded DNA) which comprises one of the 7837 "GS" sequences			Query Match 0.4%; Score 64; DB 1; Length 108;	
CC	given in T19001-T26837 and which is able to hybridise to part of			Best Local Similarity 74.5%; Pred. No. 0.3; Mismatches 27; Indels 0; Gaps 0;	
CC	human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)			Matches 79; Conservative 0; Mismatches 27; Indels 0; Gaps 0;	
CC	sequences were obtained from 3'-directed cDNA libraries prepared			DT 14-NOV-1996 (first entry)	
CC	from various human tissues; synthesis of cDNA was initiated from the			DE Human gene signature HUMGS0907B.	
CC	3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-			KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;	
CC	untranslated sequence is unique to a particular mRNA species almost			KW human; cloning; mapping; non-biased library; diagnosis; detection;	
CC	all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library			KW cell typing; abnormal cell function; ss.	
CC	is constructed so as to reflect accurately the relative abundance of			OS Homo sapiens.	
CC	different mRNAs in the particular tissue from which it was derived.			PN WO9514772-A1.	
CC	The appearance frequency of a given GS in a cDNA library can be			PD 01-JUN-1995.	
CC	determined (esp. using primers and probes derived from the GS			PP 11-NOV-1994; J01916.	
CC	sequences) as a means of diagnosing abnormal cell function or for			PR 12-NOV-1993; JP-355504.	
CC	recognising different cell types.			PA (MATS/.) MATSUBARA K.	
Sequence	103 BP;	33 A; 21 C; 25 G; 23 T;		PA (OKUB/.) OKUBO K.	
RESULT	7			PI Matsubara K, Okubo K;	
ID	T26828	standard; cDNA to mRNA; 108 BP.		DR WO95-20631/27.	
AC	T26828			PT Identifying gene signatures in 3'-directed human cDNA library - e.g.	
DT	14-NOV-1996 (first entry)			PT for diagnosis of abnormal cell function, by preparing cDNA that	
DE	Human gene signature HUMGS0907B.			PT reflects relative abundance of corresp. mRNA in specific human	
KW	Gene signature; messenger RNA; mRNA; relative abundance; frequency;			tissues.	
KW	human; cloning; mapping; non-biased library; diagnosis; detection;			PS Claim 1; Page 2182; 2245pp; Japanese.	
KW	cell typing; abnormal cell function; ss.				
OS	Homo sapiens.				
OS	W09514772-A1.				
PN					
PD					
PP	01-JUN-1995.				
PR	11-NOV-1994; J01916.				
PA	(MATS/.) MATSUBARA K.				
PA	(OKUB/.) OKUBO K.				
PI	Matsubara K, Okubo K;				
DR	WO95-20631/27.				
PT	Identifying gene signatures in 3'-directed human cDNA library - e.g.				
PT	for diagnosis of abnormal cell function, by preparing cDNA that				
PT	reflects relative abundance of corresp. mRNA in specific human				
PS	Claim 1; Page 2182; 2245pp; Japanese.				

	Best Local Similarity	Pred. No.	Matches	Conservative	Mismatches	Indels	Gaps	0;
CC	A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26837 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.	0.4%	Score 63.8; DB 1; Length 108; Sequence 108 BP;	0.3%; ID T20927/c	Score 63.8; DB 1; Length 108; Sequence 108 BP;	0.3%; ID T20927/c	0;	0;
CC	determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.	0.4%	Score 63.8; DB 1; Length 108; Sequence 108 BP;	0.3%; ID T20927/c	Score 63.8; DB 1; Length 108; Sequence 108 BP;	0.3%; ID T20927/c	0;	0;
CC	The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.	0.4%	Score 63.8; DB 1; Length 108; Sequence 108 BP;	0.3%; ID T20927/c	Score 63.8; DB 1; Length 108; Sequence 108 BP;	0.3%; ID T20927/c	0;	0;
SQ	Query Match 8	0.4%	Score 63.8; DB 1; Length 108; Sequence 108 BP;	0.3%; ID T20927/c	Score 63.8; DB 1; Length 108; Sequence 108 BP;	0.3%; ID T20927/c	0;	0;
RESULT	8	0.4%	Score 63.8; DB 1; Length 108; Sequence 108 BP;	0.3%; ID T20927/c	Score 63.8; DB 1; Length 108; Sequence 108 BP;	0.3%; ID T20927/c	0;	0;
ID	T24892	standard; cDNA to mRNA; 100 BP.						
AC	T24892;							
DT	05-NOV-1996	(first entry)						
DE	Human gene signature HUMGS06998.							
KW	Human gene signature; messenger RNA; mRNA; relative abundance; frequency; gene signature; messenger RNA; mRNA; relative abundance; frequency; human; cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal cell function; ss.							
KW	Human gene signature HUMGS02180.							
OS	Homo sapiens.							
PN	W09514772-A1.							
PD	01-JUN-1995.							
PR	11-NOV-1994; JP01916.							
PR	12-NOV-1993; JP-355504.							
PA	(MATS/.) MATSUBARA K.							
PA	(OKUB/.) OKUBO K.							
PI	Matsubara K., Okubo K;							
DR	WPI; 95-200931/27.							
PT	Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues.							
PS	Page 758-759; 2245pp; Japanese.							
CC	A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26837 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.							
SQ	Sequence 103 BP;	22 A;	27 C;	21 G;	31 T;			
RESULT	9	0.3%	Score 58.6; DB 1; Length 103; Sequence 103 BP;	0.3%; ID T21566/c	Score 58.6; DB 1; Length 103; Sequence 103 BP;	0.3%; ID T21566/c	0;	0;
Query Match	0.3%	Score 58.6; DB 1; Length 103; Sequence 103 BP;	0.3%; ID T21566/c	Score 58.6; DB 1; Length 103; Sequence 103 BP;	0.3%; ID T21566/c	0;	0;	0;
Best Local Similarity	0.3%	Score 58.6; DB 1; Length 103; Sequence 103 BP;	0.3%; ID T21566/c	Score 58.6; DB 1; Length 103; Sequence 103 BP;	0.3%; ID T21566/c	0;	0;	0;
Matches	73;	Score 58.6; DB 1; Length 103; Sequence 103 BP;	0.3%; ID T21566/c	Score 58.6; DB 1; Length 103; Sequence 103 BP;	0.3%; ID T21566/c	0;	0;	0;
Best Local Similarity	0.3%	Score 58.6; DB 1; Length 103; Sequence 103 BP;	0.3%; ID T21566/c	Score 58.6; DB 1; Length 103; Sequence 103 BP;	0.3%; ID T21566/c	0;	0;	0;
Matches	73;	Score 58.6; DB 1; Length 103; Sequence 103 BP;	0.3%; ID T21566/c	Score 58.6; DB 1; Length 103; Sequence 103 BP;	0.3%; ID T21566/c	0;	0;	0;
QY	4262 ATGGTGAACCTCATCCTACTAAATACAAACTAGCCAGGCTGGTGCCACC	4321						
DB	99 ATGGAGAATCTGTCCCTACTAAATACAAATCAGCTGGACATGGCGCACACC	40						
QY	4322 TGTAACTCCACACTACTCAAGGGCTGAAGCGGGAGTC	4360						
DB	39 TGTAGCCACACTACTGGAGGTGGAGTGGAGG	1						
KW	Gene signature; messenger RNA; mRNA; relative abundance; frequency;							

Query Match

0.3%; Score 60.2; DB 1; Length 100;

Query Match

0.3%; Score 60.2; DB 1; Length 100;

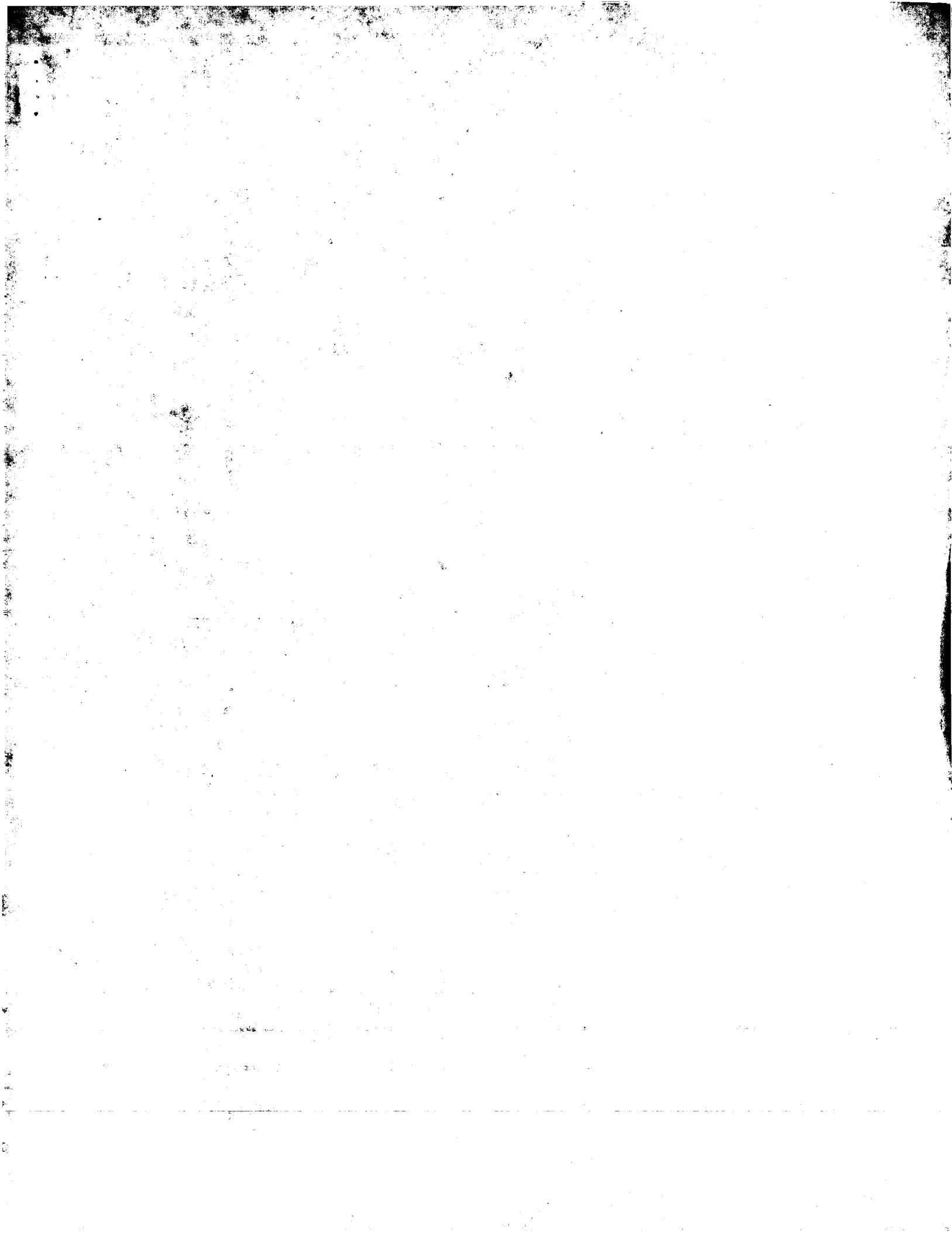
KW human; cloning; mapping; non-biased library; diagnosis; detection;  
 KW cell typing; abnormal cell function; ss.  
 OS Homo sapiens  
 PN WO9514712-A1.  
 PD 01-JUN-1995.  
 PF 11-NOV-1994; J01916.  
 PR 12-NOV-1993; JP-3555504.  
 PA (MATS-) MATSUBARA K.  
 PA (OKUB-) OKUBO K.  
 PI Matsubara K., Okubo K.;  
 DR WPI; 95-206931/27.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g.,  
 PT for diagnosis of abnormal cell function, by preparing cDNA that  
 PT reflects relative abundance of corresp. mRNA in specific human  
 PT tissues  
 PS Claim 1; Page 914; 2245PP; Japanese.  
 CC A single-stranded DNA (or its complementary strand or the corresp.  
 CC double-stranded DNA) which comprises one of the 7837 "GS" sequences  
 CC given in T198011-T26837 and which is able to hybridize to part of  
 CC human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)  
 CC sequences were obtained from 3'-directed cDNA libraries prepared  
 CC from various human tissues; synthesis of cDNA was initiated from the  
 CC 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-  
 CC untranslated sequence is unique to a particular mRNA species, almost all  
 CC the 3'-oriented cDNAs hybridise with specific mRNAs. Each library  
 CC is constructed so as to reflect accurately the relative abundance of  
 CC different mRNAs in the particular tissue from which it was derived.  
 CC The appearance frequency of a given GS in a cDNA library can be  
 CC determined (esp. using primers and probes derived from the GS  
 CC sequences) as a means of diagnosing abnormal cell function or for  
 CC recognising different cell types.  
 Sequence 87 BP; 35 A; 21 C; 16 G; 13 T;



CC  
CC  
CC  
CC  
Sequence 82 BP; 26 A; 25 C; 14 G; 17 T;  
  
The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.

Query Match 0.3%; Score 56.4; DB 1; Length 82;  
Best Local Similarity 80.5%; Pred. No. 3.4;  
Matches 66; Conservative 0; Mismatches 16; Indels 0; Gaps 0;  
Matches 66; Conservative 0; Mismatches 16; Indels 0; Gaps 0;  
  
Qy 4542 TTAACTTCCCTGGTACAGTACAGGATGTCAGGTGTTACATAACGTGCGCC 4601  
Db 82 TTAACTTCTGGGTACCATGCGGATGTCAGGTGTTACATAACGTGCGCC 23  
  
Qy 4602 ATGGTGAATTGCTGCACCTATC 4623  
Db 22 ACGGAGCTTGCTCUCAGATC 1

Search completed: June 17, 2000, 11:43:23  
Job time: 254714 sec



GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using SW model

Run on: June 17, 2000, 02:34:25 ; search time 13753.1 seconds  
({without alignments})  
5305.117 Million cell updates/sec

Title: US-08-852-495C-1\_COPY\_196000\_214000  
perfect score:  
Sequence: 1 GATAGGCTCACTTCTAACCA.....CCATCACGCTTCACRCC 18001

Scoring table: IDENTITY.NUC  
Gapop 10.0 , Gapext 1.0

Searched: 485/316 seqs, 2026611650 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 10  
Maximum DB seq length: 110

Post-processing: Listing first 45 summaries

Database : EST:\*

1: em\_est1:\*

2: em\_est2:\*

3: em\_est3:\*

4: em\_est4:\*

5: em\_est5:\*

6: em\_est6:\*

7: em\_est7:\*

8: em\_est8:\*

9: em\_est9:\*

10: em\_est10:\*

11: em\_est11:\*

12: em\_est12:\*

13: em\_est13:\*

14: em\_est14:\*

15: em\_est15:\*

16: em\_est16:\*

17: em\_est17:\*

18: em\_est18:\*

19: em\_est19:\*

20: gb\_est1:\*

21: gb\_est2:\*

22: gb\_est3:\*

23: gb\_est4:\*

24: gb\_est5:\*

25: gb\_est6:\*

26: gb\_est7:\*

27: gb\_est8:\*

28: gb\_est9:\*

29: gb\_est10:\*

30: gb\_est11:\*

31: gb\_est12:\*

32: gb\_est13:\*

33: gb\_est14:\*

34: gb\_est15:\*

35: gb\_est16:\*

36: gb\_est17:\*

37: gb\_est18:\*

38: gb\_est19:\*

39: gb\_est20:\*

40: gb\_est21:\*

41: gb\_est22:\*

42: gb\_est23:\*

43: gb\_est24:\*

44: gb\_est25:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result      %      Query      SUMMARIES

45: gb\_est26:\*

46: gb\_est27:\*

47: gb\_est28:\*

48: gb\_est29:\*

49: gb\_est30:\*

50: gb\_est31:\*

51: gb\_est32:\*

52: em\_est20:\*

53: em\_est21:\*

54: em\_est22:\*

55: em\_est23:\*

56: em\_est24:\*

57: em\_est25:\*

58: em\_est26:\*

59: gb\_est33:\*

60: gb\_est34:\*

61: gb\_est35:\*

62: gb\_est36:\*

63: gb\_est37:\*

64: gb\_est38:\*

65: em\_est27:\*

66: em\_est28:\*

67: em\_est29:\*

68: em\_est30:\*

69: gb\_est39:\*

70: gb.est40:\*

71: gb.est41:\*

72: gb.est42:\*

73: gb.est43:\*

74: gb.est44:\*

75: em.est44:\*

76: em.est45:\*

77: em.est46:\*

78: em.est47:\*

79: gb.est45:\*

80: gb.est46:\*

81: gb.est47:\*

82: gb.gss1:\*

83: gb.gss2:\*

84: gb.gss3:\*

85: gb.gss4:\*

86: em.gss1:\*

87: em.gss2:\*

88: em.gss3:\*

89: em.gss4:\*

90: gb.gss5:\*

91: gb.gss6:\*

92: gb.gss7:\*

93: gb.gss8:\*

94: gb.gss9:\*

95: em.gss3:\*

96: em.gss4:\*

97: em.gss5:\*

98: em.gss6:\*

99: em.gss9:\*

100: em.gss10:\*

101: em.gss11:\*

102: gb.gss10:\*

103: gb.gss11:\*

104: em.gss12:\*

105: gb.gss12:\*

106: gb.gss13:\*

107: gb.gss14:\*

108: gb.gss15:\*

109: gb.gss16:\*

No.	Score	Match	Length	DB	ID	Description
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1	93	0.5	109	30	AA243009	Contact: Wilson RK Washington University School of Medicine
2	91.6	0.5	106	37	AA703692	444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
3	91.6	0.5	107	35	AA565533	Tel: 314 286 1800
4	90.2	0.5	103	84	B48914	Fax: 314 286 1810
5	90	0.5	110	106	AQ386882	Email: est@wustl.edu
6	88.6	0.5	103	108	AQ5524	This clone is available royalty-free through LNM ; contact the
7	87.6	0.5	110	106	AQ386882	IMAGE Consortium (Info@image.llnl.gov) for further information.
8	87.4	0.5	106	108	AQ544957	Insert Length: 1127 Std Error: 0.00
9	86.8	0.5	110	39	AQ897366	Seq primer: -41m13 fwd. ET from Amersham
10	86.6	0.5	103	38	AQ807640	High quality sequence stop: 102.
11	86.6	0.5	109	84	B17434	Location/Qualifiers
12	86.6	0.5	109	84	B17434	1. -109
13	86.6	0.5	110	30	AQ244245	/organism="Homo sapiens"
14	86.6	0.5	110	94	AQ003188	/db_xref="GDB:542681"
15	86.2	0.5	107	35	AQ565533	/db_xref="taxon:9606"
16	86.2	0.5	108	84	B65160	/clone="IMAGE:664467"
17	86	0.5	105	109	AQ637292	/tissue_type="neuroepithelial cells"
18	85.4	0.5	103	94	AQ28649	/der_stage="Ntera-2 neuroepithelial cells"
19	85.4	0.5	103	108	AQ535244	/lab_host="SOLR (kamycin resistant)"
20	84.4	0.5	102	62	AQ654562	/note="Organ: brain; Vector: Bluescript SK-"
21	84.4	0.5	106	105	AQ264176	Site_1: EcoRI; Site_2: XbaI; Cloned unidirectionally. Primer:
22	83.6	0.5	109	105	AQ265749	Oligo dT. Uninduced; exponentially growing neuroepithelial
23	83.4	0.5	107	35	AQ583522	cells (Ntera-2/c1.D1); Average insert size: 1.0 kb;
24	83	0.5	109	94	AQ029690	Uni_ZAP XR Vector; -5' adaptor sequence: 5' GAATTCGGACGAG
25	83	0.5	103	108	AQ582186	3' -3' adaptor sequence: 5' CTCGAGTTTCTTTTTTTT 3'
26	82	0.5	106	63	AQ991750	ORIGIN
27	82	0.5	106	63	AQ991750	19 a
28	82	0.5	106	63	AQ991750	30 c
29	81.6	0.5	107	24	H67040	30 g
30	81.6	0.5	108	35	AQ594669	30 t
31	81.2	0.5	102	84	B48088	Query Match
32	81.2	0.5	104	108	AQ54583	Best Local Similarity 0.58; Score 93; DB 30; Length 109;
33	81	0.4	105	28	AQ078003	Matches 99; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
34	80.8	0.4	107	106	AQ412658	Db 1
35	80.8	0.4	108	84	B32951	GTATTTTAGAGAGATGGAGTTGCCGCGTTAGCCAGGTTGCAGTCGACCTCCCTGACC 12932
36	80.8	0.4	109	103	AQ20347	GTATTAGAGACGGCTCAGGCTCCAAAGTGCTGGATTCAGGCTATG 60
37	80.6	0.4	103	35	AQ570438	ATGTTGAGCTGGCTCCCTAC 12981
38	80.6	0.4	103	108	AQ534922	ATGTTGAGCTGGCTCCCTAC 12981
39	80.6	0.4	108	84	B15413	ATGTTGAGCTGGCTCCCTAC 12981
40	80.4	0.4	106	38	AQ812141	ATGTTGAGCTGGCTCCCTAC 12981
41	80.4	0.4	109	24	N25299	ATGTTGAGCTGGCTCCCTAC 12981
42	80.2	0.4	106	30	AQ258112	ATGTTGAGCTGGCTCCCTAC 12981
43	80.2	0.4	109	94	AQ28426	ATGTTGAGCTGGCTCCCTAC 12981
44	80.2	0.4	109	105	AQ265749	ATGTTGAGCTGGCTCCCTAC 12981
45	80	0.4	97	39	AQ837701	RESULT 2
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CDS	232502,51	Stratagene	NT2 neuronal precursor	aa910,1-1	Stratagene	NT2 neuron
COMMENT			937230 Homo sapiens			(#937233)
ACCESSION			EST			Homo sapiens clone
VERSION	AA243009		sequence			sequence.
KEYWORDS			EST.			EST.
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ORGANISM			GI:2713610			GI:2713610
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COMMENT			937230 Homo sapiens			
ACCESSION			EST			
VERSION	AA243009.1		sequence			
KEYWORDS			EST.			
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ORGANISM			GI:2713610			GI:2713610
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RESULT	1					
AA243009	AA243009	109 bp	mRNA			
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COMMENT			937230 Homo sapiens			
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ORGANISM			GI:2713610			GI:2713610
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CDS	232502,51	Stratagene	NT2 neuronal precursor			
COMMENT			937230 Homo sapiens			
ACCESSION			EST			
VERSION	AA243009.1		sequence			
KEYWORDS			EST.			
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ORGANISM			GI:2713610			GI:2713610
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RESULT	1					
AA243009	AA243009	109 bp	mRNA			
DEFINITION	AA243009	EST	11-MAR-1998			
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COMMENT			937230 Homo sapiens			
ACCESSION			EST			
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KEYWORDS			EST.			
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ORGANISM			GI:2713610			GI:2713610
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RESULT 5  
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 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
 REFERENCE 1 (bases 1 to 110)  
 AUTHORS Zhao, S., Adams, M.D., Nierman, W., Malek, J., de Jong, P. and Venter, J.C.  
 TITLE Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready JOURNAL Unpublished (1997)  
 COMMENT Contact: Shuying Zhao, William Nierman, Mark Adams Department of Eukaryotic Genomics The Institute for Genomic Research 9712 Medical Center Dr., Rockville, MD 20850 Tel: 301 838 0200 Fax: 301 838 0208 Email: hbe@tigr.org  
 Clones are derived from the human BAC library RPCI-11. For BAC library availability, please contact Pieter de Jong (pieter-dejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (<http://bacpac.med.buffalo.edu/ordering>) or from Research Genetics (<http://www.regen.com>). BAC end search Page: [http://www.tigr.org/tgb/hungen/bac\\_end\\_search.html](http://www.tigr.org/tgb/hungen/bac_end_search.html). Seq primer: T7 Class: BAC ends.

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 /db\_xref="taxon:9606"  
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 /clone\_id="RPCI-11"  
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 /cell\_type="Lymphocytes"  
 /note="vector: PBACE3.6; site\_1: ECORI; site\_2: ECORI;  
 RPCI11 Human Male BAC Library"  
 BASE COUNT 31 a 27 c 27 g 18 t  
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Query Match 0.5%; Score 90; DB 106; Length 110;  
 Best Local Similarity 90.6%; Pred. No. 0.14;  
 Matches 96; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

RESULT 6  
 LOCUS A0535244  
 DEFINITION RPCI-11-317H22.TV RPCI-11 Homo sapiens genomic clone A0535244  
 ACCESSION A0535244.1 GI:4846934  
 VERSION GSS.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
 REFERENCE 1 (bases 1 to 103)  
 AUTHORS Zhao, S., Adams, M.D., Nierman, W., Malek, J., de Jong, P. and Venter, J.C.  
 TITLE Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready JOURNAL Unpublished (1997)  
 COMMENT Contact: Shuying Zhao, William Nierman, Mark Adams Department of Eukaryotic Genomics The Institute for Genomic Research 9712 Medical Center Dr., Rockville, MD 20850 Tel: 301 838 0200 Fax: 301 838 0208 Email: hbe@tigr.org  
 Clones are derived from the human BAC library RPCI-11. For BAC library availability, please contact Pieter de Jong (pieter-dejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (<http://bacpac.med.buffalo.edu/ordering>) or from Research Genetics (<http://www.regen.com>). BAC end search Page: [http://www.tigr.org/tgb/hungen/bac\\_end\\_search.html](http://www.tigr.org/tgb/hungen/bac_end_search.html). Seq primer: T7 Class: BAC ends.

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 /cell\_type="Lymphocytes"  
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 BASE COUNT 31 a 27 c 27 g 18 t  
 ORIGIN

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RESULT 7  
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 DEFINITION RPCI11-13414.TV RPCI-11 Homo sapiens genomic clone A0386882  
 ACCESSION A0386882  
 VERSION A0386882.1 GI:4357905  
 KEYWORDS GSS.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

REFERENCE	Rutherford; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	1 (bases 1 to 110)
COMMENT	1 (bases 1 to 110)
JOURNAL	Eutheria; S., Adams, M.D., Nierman, W., Malek, J., de Jong, P. and Venter, J.C.
TITLE	Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready Map Building
VERSION	Unpublished (1997)
KEYWORDS	Other_GSS: RPCI11-13414.TJ
SOURCE	Contact: Shuying Zhao, William Nierman, Mark Adams Department of Eukaryotic Genomics The Institute for Genomic Research 9712 Medical Center Dr., Rockville, MD 20850 Tel: 301 838 0200 Fax: 301 838 0208 Email: hbetigr.org
FEATURES	Clones are derived from the human BAC library RPCI-11. For BAC library availability, please contact Pieter de Jong Pieter@deflong.med.buffalo.edu. Clones may be purchased from BAC-PAC Resources ( <a href="http://bacpac.med.buffalo.edu/ordering">http://bacpac.med.buffalo.edu/ordering</a> ) or from Research Genetics ( <a href="http://www.resgen.com">http://www.resgen.com</a> ). BAC end search page: <a href="http://www.tigr.org/cdb/hungen/bac_end_search.html">http://www.tigr.org/cdb/hungen/bac_end_search.html</a>
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ORIGIN	Class: BAC ends.
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ORIGIN	CalTech Human BAC Library D
RESULT	9
LOCUS	AA897366 110 bp mRNA
DEFINITION	an06b02_s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1466067 3' similar to contains Alu repetitive element;, mRNA sequence.
ACCESSION	AA897366
VERSION	AA897366.1 GI:3033986
KEYWORDS	EST.
SOURCE	AA897366
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	1 (bases 1 to 110)
TITLE	NCI-CGAP <a href="http://www.ncbi.nlm.nih.gov/ncicgap">http://www.ncbi.nlm.nih.gov/ncicgap</a> .
JOURNAL	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
COMMENT	Unpublished (1997) Contact: Robert Stausberg, Ph.D. Tel: (301) 496-1550
JOURNAL	Email: Robert.Strausberg@nih.gov This clone is available royalty-free through LILNL; contact the IMAGE Consortium ( <a href="http://image.lnl.gov">http://image.lnl.gov</a> ) for further information.
REFERENCE	1 (bases 1 to 106)
VERSION	AA544957.1 GI:4903683
KEYWORDS	CGS.
SOURCE	human.
ORGANISM	Homo sapiens
DEFINITION	CITBI-E1-2629N2.TF CITBI-E1 Homo sapiens genomic clone 2629N2, genomic survey sequence.
ACCESSION	AA544957
VERSION	AA544957.1 GI:4903683
KEYWORDS	CGS.
SOURCE	human.
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
DEFINITION	CITBI-E1-2629N2.TF CITBI-E1 Homo sapiens genomic clone 2629N2, genomic survey sequence.
ACCESSION	AA544957
VERSION	AA544957.1 GI:4903683
KEYWORDS	CGS.
SOURCE	human.
ORGANISM	Homo sapiens
DEFINITION	CITBI-E1-2629N2.TF CITBI-E1 Homo sapiens genomic clone 2629N2, genomic survey sequence.
ACCESSION	AA544957
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KEYWORDS	CGS.
SOURCE	human.
ORGANISM	Homo sapiens
DEFINITION	CITBI-E1-2629N2.TF CITBI-E1 Homo sapiens genomic clone 2629N2, genomic survey sequence.
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KEYWORDS	CGS.
SOURCE	human.
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DEFINITION	28-MAY-1999
ACCESSION	AQ544957
VERSION	AQ544957.1 GI:4903683
KEYWORDS	GSS.
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VERSION	AQ544957.1 GI:4903683
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SOURCE	human.
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SOURCE	human.
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LOCUS	AQ544957 106 bp DNA GSS
DEFINITION	28-MAY-1999
ACCESSION	AQ544957
VERSION	AQ544957.1 GI:4903683
KEYWORDS	GSS.
SOURCE	human.</

NCI-CGAP\_GC31) were mixed, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of I.M.A.G.E. clones 726408-728711, and 729096-731399. Subtraction by Bento Soares and M. Fatima Bonaldo.

## BASE COUNT

22 a 27 c 29 g 32 t

## ORIGIN

Query Match 0.5%; Score 86.8; DB 39; Length 110;  
Best Local Similarity 88.7%; Pred. No. 0.32%;  
Matches 94; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 12876 TTTTTAGTAGAGATGGAGTTGCCGCTTACAGGAGTCATCTCGACCTCG 12935  
Db 5 TTTTTAGTAGAGATGGAGTTGCCGCTTACAGGAGTCATCTCGACCTCG 110

## RESULT 10

AA807640 AA807640 103 bp mRNA EST 05-MAR-1998  
DEFINITION Homo sapiens cDNA clone IMAGE:255473 3'  
ACCESSION AA807640  
VERSION AA807640.1 GI:2877108  
TITLE EST.  
KEYWORDS tumor, gene index  
SOURCE human.  
ORGANISM Homo sapiens  
REFERENCE 1 (bases 1 to 103)  
AUTHORS NCBI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
JOURNAL Tumor Gene Index  
COMMENT Unpublished (1997)  
On Jan 19, 1998 this sequence version replaced gi:2151346.  
Contact: Robert Strausberg, Ph.D.  
Email: Robert.Strausberg@nih.gov  
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael  
Emmett-Buck, M.D., Ph.D.  
cDNA Library Preparation: Greg Bento Soares, Ph.D.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LINL at:  
[www-bio.llnl.gov/bobrp/Image/image.html](http://www-bio.llnl.gov/bobrp/Image/image.html)

Insert Length: 774 Std Error: 0.00  
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High quality sequence stop: 87.  
Location/Qualifiers

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/lab\_host="DH0B"  
/note="vector: pMT3D-Pac (Pharmacia) with a modified  
polylinker; 1st strand cDNA was prepared from 3 pooled  
germ cell tumors, and was then primed with a Not I -  
oligo(dT) primer. Double-stranded cDNA was ligated to Eco  
RI adaptors (Pharmacia), digested with Not I and cloned  
into the Not I and Eco RI sites of the modified pMT3  
vector. Library is not normalized. Library was

BASE COUNT 19 a constructed by Bento Soares and M. Fatima Bonaldo. n  
ORIGIN

Query Match 0.5%; Score 86.6; DB 38; Length 103;  
Best Local Similarity 91.1%; Pred. No. 0.35%;  
Matches 92; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 12881 AGTAGAGATGGAGTTGCCGCTTACAGGAGTCATCTCGACCTCG 12940  
Db 2 AGTAGAGATGGAGTTGCCGCTTACAGGAGTCATCTCGACCTCG 61

RESULT 11  
B17434 AA807640 109 bp DNA  
DEFINITION 345K2.TVB CIT978SKA1 Homo sapiens genomic clone A-345K02, genomic  
TITLE survey sequence.  
ACCESSION B17434  
VERSION B17434.1 GI:2125183  
KEYWORDS GSS.  
SOURCE human.  
ORGANISM Homo sapiens  
REFERENCE 1 (bases 1 to 109)  
AUTHORS Adams,M.D., Kelley,J.M., Rounseley,S.R. and Venter,J.C.  
TITLE Unpublished (1997)  
JOURNAL Other\_GSS: 345K02.TP 345K02.TPB  
COMMENT Contact: Mark Adams  
Department of Eukaryotic Genomics  
The Institute for Genomic Research  
9712 Medical Center Dr., Rockville, MD 20850, USA  
Tel: 301 838 2000  
Fax: 301 838 0208  
Email: madaams@tigr.org  
Clones are available from Research Genetics ([info.resgen.com](http://info.resgen.com)). BAC  
end search page:  
[http://www.tigr.org/~db/humgen/bac\\_end\\_search/bac\\_end\\_search.html](http://www.tigr.org/~db/humgen/bac_end_search/bac_end_search.html)  
Seq primer: T7  
Class: BAC ends.

FEATURES source  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
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/cell\_type="fibroblast"  
/note="vector: PBAC108; site\_1: HindIII; site\_2: HindIII;  
CalTech Human BAC Library A1"

BASE COUNT 24 a 30 c 31 g 24 t  
ORIGIN

Query Match 0.5%; Score 86.6; DB 84; Length 109;  
Best Local Similarity 87.2%; Pred. No. 0.34%;  
Matches 95; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 8125 TGGCTCACCCCTGTAATCCCAAGCACTTGGCAAGCTGAGGCCAGATCACTTGAGGT 8184  
Db 1 TGGCTCACCCCTGTAATCCCAAGCACTTGGCAAGCTGAGGCCAGATCACTTGAGGT 60

QY 8185 AGGAGTTGAGACCAGCCATGGCAACATGGTAAACCTGTGTCACTA 8233  
Db 61 GGAGTTGAGACCAGCCATGGTAAACCTGTGTCACTA 109

RESULT	12	JOURNAL	Unpublished (1997)
B17434/C	B17434	COMMENT	On Jan 24, 1995 this sequence version replaced 91:634306.
LOCUS	345K2.TVB CIR978SKA1	CONTACT	Contact: Robert Strausberg, Ph.D.
DEFINITION	Homo sapiens genomic clone A-345K02, genomic	TELE	Tel: (301) 496-1550
ACCESSION	B17434	EMAIL	Email: Robert.Strausberg@nih.gov
VERSION	B17434.1	TISSUE	Tissue Procurement: W. Marston Linehan, M.D., Rodrigo Chuquai,
KEYWORDS	GSS.	PERSON	M.D., Michael Emmert-Buck, M.D., Ph.D.
SOURCE	human.	CNA	CNA Library Preparation: David B. Krimman, Ph.D.
ORGANISM	Homo sapiens	LIBRARY	CNA Library Arrayed by: Genome Systems Inc., Greg Lennon, Ph.D.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;	DN	SEQUENCING	DNA Sequencing by: Washington University Genome Sequencing Center
Eutheria; Primates; Catarrhini; Hominidae; Homo.	A	DISTRIBUTION	Clone distribution: NCI-CGAP clone distribution information can be found through the T.I.M.A.G.E. Consortium/LINC at: www-bio.lnl.gov/bbrp/image/Image.html
REFERENCE	1 (bases 1 to 109)	PRIMER	Seq primer: -41m13 fwd. ET from Amersham
AUTHORS	Adams,M.D., Keller,J.M., Rounsley,S.R. and Venter,J.C.	QUALIFIERS	High quality sequence stop: 90.
TITLE	Use of a BAC End Sequence Database for Sequence-Ready Map Building	LOCATION	Location/Qualifiers
JOURNAL	Unpublished (1997)	SOURCE	1. .110
COMMENT	Other_GSS: 345K02.TP 345K02.TPB	FEATURES	/organism="Homo sapiens"
CONTACT	Mark Adams		/db_xref="taxon:9606"
Department of Eukaryotic Genomics	The Institute for Genomic Research		/clone="IMAGE:107405"
9712 Medical Center Dr., Rockville, MD 20850, USA	9712 Medical Center Dr., Rockville, MD 20850, USA		/clone_id="NCI-CGAP_Prl"
Tel: 301 838 0200	Fax: 301 838 0208		/sex="Male"
Email: madams@tigr.org			/dev_stage="45 years old"
Clones are available from Research Genetics (info@relegen.com). BAC			/lab_host="DH10B"
end search page:	http://www.tigr.org/tdb/humgen/bac_end_search/bac_end_search.html		/note="Vector: PAMP10; Site_1: NotI; Site_2: EcoRI; 1st
Seq primer: T7			strand cDNA was primed with oligo(dT)17 on 50 ng of
Class: BAC ends.			DNase-treated, total cellular RNA obtained from
FEATURES	Location/Qualifiers		5,000-10,000 microdissected, histologically normal
Source	1. .109		prostate epithelial cells. Double-stranded cDNA was
	/organism="Homo sapiens"		ligated to EcoRI adaptors, 5 cycles of PCR applied to the
	/db_xref="taxon:9606"		cDNA with an adaptor-specific primer, and the resulting
	/clone="A-345K02"		PCR product subcloned into PAMP10 by the UPG-cloning
	/clone_id="CT978SKA1"		method (Life Technologies). Average insert size is 600
	/sex="Female"		bp. NOTE: Not directionally cloned. This library was
	/cell_type="Fibroblast"		constructed by David Kriman."
	/note="Vector: PBAC108L; site_1: HindIII; site_2: HindIII;		1 others
BASE COUNT	24 a 30 c 31 g 24 t	ORIGIN	Caltech Human BAC Library A1
ORIGIN		Query Match	0.5%; Score 86.6; DB 30; Length 110;
		Best Local Similarity	86.4%; Pred. No. 0; 34; Mismatches 15; Indels 0; Gaps 0;
Query	0.5%	Matches	95; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
Best Local Similarity	87.2%; Pred. No. 0; 34; Length 109;	QY	13412 TTTTTTTTTGAGATGACTCTCATTCGTCACTCGTACGGTGAGTCAGTACATGCT 13471
Matches	95; Conservative 0; Mismatches 14; Indels 0; Gaps 0;	Db	1 TTTTTTTTTGAGATGAGTCAGTACATGCTGGCTGAGTCAGTACAGANTCT 60
QY	11325 TAGTAGATGGGTTAACATTGTTGGCAGGATATCTCGAACACCTGACTCTAGTG 11384	QY	13472 TGCTCATGGCAACTCTGCCCTCTGGTTAGTGTCTCCCTGACTCA 13521
Db	109 TAGTGTGACCGGGTTAACATTGAGTCAGCTGGCTGAGTCAGTACAGANTCT 50	Db	61 TGGTCACTGCACACTCTGCCTGCTGGTCAAGAGATTCTGCTCA 110
QY	11385 ATCCACCAACCTCTAGCTCCCAAAGTGCTAGGATATAGGTATGAGCCA 11433	RESULT	14
Db	49 ATCCGGCACATCAGCTCCCAAAGTGCTAGGATATAGGTATGAGCCA 1	LOCUS	AQ003188
RESULT	13	DEFINITION	AQ003188 110 bp DNA
AA244245	AA244245 110 bp mRNA	ACCESSION	RPCI11-1D10.TPN RPCI-11 Homo sapiens genomic clone RPCI-11-1D10,
DEFINITION	nc07a04.s1 NCI_CGAP_Prl	VERSION	genomic survey sequence.
ACCESSION	Homo sapiens cDNA clone IMAGE-1007406	KEYWORDS	AQ003188
VERSION	similar to contains Alu repetitive element;, mRNA sequence.	ORGANISM	AQ003188.1 GI:3030392
KEIWORDS	EST.	REFERENCE	GSS.
SOURCE	human.	AUTHORS	1 (bases 1 to 110)
ORGANISM	Homo sapiens		Adams,M.D., Rounsley,S.D., Zhao,S., Field,C.E., Bass,S., Linher,K.,
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;			Golden,K., Berry,K., Granger,D., Suh,E., Wible,C., de Jong,P. and
Eutheria; Primates; Catarrhini; Hominidae; Homo.			Venter,J.C.
REFERENCE	1 (bases 1 to 110)	TITLE	Use of BAC End Sequences for Sequence-Ready Map Building (1998)
AUTHORS	NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.	JOURNAL	Unpublished (1998)
TITLE	National Cancer Institute, Cancer Genome Anatomy Project (CGAP),	COMMENT	Contact: Mark Adams
			Department of Eukaryotic Genomics

The Institute for Genomic Research  
 9712 Medical Center Dr., Rockville, MD 20850, USA  
 Tel: 301 838 0200  
 Fax: 301 838 0208  
 Email: midans@igr.org

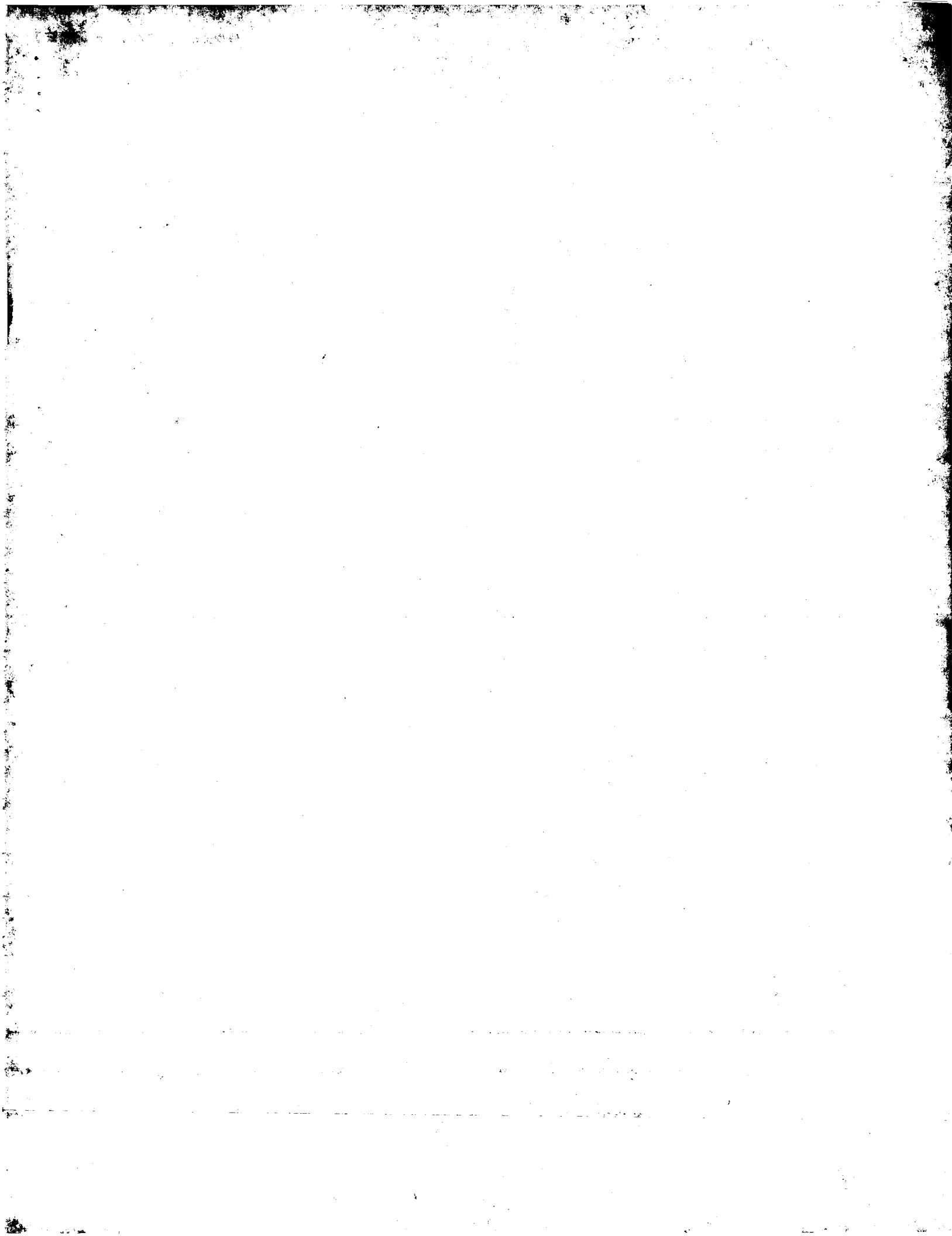
Clones are derived from the human BAC library RPCI-11.. FOR BAC library availability, please contact Pieter de Jong (Pieter.deJong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (<http://bacpac.med.buffalo.edu/orderbac>) or from Research Genetics (<http://www.resgen.com>). BAC end search page: [http://www.tigr.org/tgb/hungen/bac\\_end\\_search.html](http://www.tigr.org/tgb/hungen/bac_end_search.html)

Seq primer: -40ml3 fwd. ET from Amersham  
 High quality sequence stop: 87.

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clone_xref	"RPCI-11-1D10"	clone_xref	"RPCI-11"
clone_idb	"RPCI-11"	clone_idb	"RPCI-11"
sex	"Male"	tissue_type	"germ cell tumor"
cell_type	"Lymphocytes"	lab_host	"SOLR (Kanamycin resistant)"
note	"Vector: PBACE3.6; Site_1: EcoRI; Site_2: EcoRI; RPCI Human Male BAC Library"	note	"Vector: Bluescript SK; Site_1: EcoRI; Site_2: XbaI; Cloned unidirectionally. Primer: Oligo dT. Bulk germ cell tumor. 5' adaptor sequence: 5' GAATGGCACGAG 3' adaptor sequence: 5' CTCGAGTTTTTTTTTT 3'
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Wed Jun 21 14:43:39 2000

us-08-852-495c-1\_copy\_196000\_214000.rst



GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

## On nucleic - nucleic search, using sw model

Run on:

June 17, 2000, 10:50:11 ; Search time 593.69 seconds

(without alignments)

3941.217 Million cell updates/sec

Title: US-08-852-495c-1\_COPY\_196000\_214000  
Perfect score: 18001  
Sequence: GATAGCTCACTTCTAACCA.....CCATCCAGCTCTCACCT 18001

Scoring table: IDENTITY\_NUC

gapext 1.0 , Gapext 1.0

Searched: 210463 seqs, 64992525 residues

Total number of hits satisfying chosen parameters: 374504

Minimum DB seq length: 10  
Maximum DB seq length: 110

Post-processing: Minimum Match 0% summaries

Database : Issued\_Patents\_NA,\*  
1: /cgn2\_6/ptodata/1/1na/5A-COMB.seq: \*  
2: /cgn2\_6/ptodata/1/1na/5B-COMB.seq: \*  
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5: /cgn2\_6/ptodata/1/1na/6-COMB.seq: \*  
6: /cgn2\_6/ptodata/1/1na/pcUS-COMB.seq: \*  
7: /cgn2\_6/ptodata/1/1na/backfiles1.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

% Query Length DB ID

Result No. Score Description

Result No.	Score	Query	Length	DB	ID	Description
1	78.4	0.4	105	4	US-08-481-658B-65	Sequence 65, Appl
2	78.4	0.4	105	4	US-08-481-658B-65	Sequence 65, Appl
3	78.4	0.4	105	4	US-08-486-756A-65	Sequence 65, Appl
4	78.4	0.4	105	4	US-08-485-862B-65	Sequence 65, Appl
5	78.4	0.4	105	4	US-08-487-739-65	Sequence 65, Appl
6	72.8	0.4	105	4	US-08-481-658B-65	Sequence 65, Appl
7	72.8	0.4	105	4	US-08-477-504A-65	Sequence 65, Appl
8	72.8	0.4	105	4	US-08-486-756A-65	Sequence 65, Appl
9	72.8	0.4	105	4	US-08-485-862B-65	Sequence 65, Appl
10	72.8	0.4	105	5	US-08-487-739-65	Sequence 65, Appl
11	63.8	0.4	84	3	US-08-454-557C-91	Sequence 65, Appl
12	63.8	0.4	84	4	US-08-340-426D-91	Sequence 65, Appl
13	63.8	0.4	84	4	US-08-450-673C-91	Sequence 65, Appl
14	63.8	0.4	84	6	PCT-US95-1111A-91	Sequence 65, Appl
15	60.4	0.3	78	3	US-08-454-557C-70	Sequence 70, Appl
16	60.4	0.3	78	4	US-08-340-426D-70	Sequence 70, Appl
17	60.4	0.3	78	4	US-08-450-673C-70	Sequence 70, Appl
18	60.4	0.3	78	6	PCT-US95-1111A-70	Sequence 70, Appl
19	59.2	0.3	85	3	US-08-454-557C-92	Sequence 92, Appl
20	59.2	0.3	85	4	US-08-340-426D-92	Sequence 92, Appl
21	59.2	0.3	85	4	US-08-450-673C-92	Sequence 92, Appl
22	59.2	0.3	85	6	PCT-US95-1711A-92	Sequence 92, Appl
23	58.2	0.3	84	3	US-08-454-557C-91	Sequence 91, Appl
24	58.2	0.3	84	4	US-08-340-426D-91	Sequence 91, Appl
25	58.2	0.3	84	4	US-08-450-673C-91	Sequence 91, Appl
26	58.2	0.3	84	6	PCT-US95-1111A-91	Sequence 91, Appl
27	57.8	0.3	78	3	US-08-454-557C-70	Sequence 70, Appl

RESULT 1	US-08-481-658B-65
SEQUENCE	65, Application US/08481658B
PATENT NO.	5955075
GENERAL INFORMATION:	
APPLICANT:	Zavada, Jan
APPLICANT:	Pastorekova, Sylvia
APPLICANT:	Pastorek, Jaromir
TITLE OF INVENTION:	MN Gene and Protein
NUMBER OF SEQUENCES:	86
CORRESPONDENCE ADDRESS:	
ADDRESSEE:	Leona L. Lauder
STREET:	6 Mariposa Court
CITY:	Tiburon
STATE:	California
COUNTRY:	USA
ZIP:	94920
COMPUTER READABLE FORM:	
MEDIUM TYPE:	FLOPPY DISK
COMPUTER:	IBM PC compatible
OPERATING SYSTEM:	PC-DOS/MS-DOS
SOFTWARE:	PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:	
APPLICATION NUMBER:	US/08/481-658B
FILEING DATE:	07-JUN-1995
CLASSIFICATION:	424
PRIOR APPLICATION DATA:	
APPLICATION NUMBER:	US 08/260,190
FILEING DATE:	15-JUN-1994
ATTORNEY/AGENT INFORMATION:	
NAME:	Lauder, Leona L.
REGISTRATION NUMBER:	30,863
REFERENCE/DOCKET NUMBER:	D-0021.3E
TELECOMMUNICATION INFORMATION:	
TELEPHONE:	415-335-2034
TELEFAX:	415-435-0727
INFORMATION FOR SEQ ID NO:	65:
SEQUENCE CHARACTERISTICS:	
LENGTH:	105 base pairs
TYPE:	nucleic acid
STRANDEDNESS:	single
TOPOLOGY:	linear
MOLECULE TYPE:	DNA (genomic)
HYPOTHETICAL:	NO
ANTI SENSE:	NO
US-08-481-658B-65	

Query Match Best Local Similarity 0.4%; Score 78.4; DB 4; Length 105;

Matches 88; conservative 0; Mismatches 16; Indels 0; Gaps 0; US-08-477-504A-65  
 ; Sequence 65, Application US/08477504A  
 ; Patent No. 5981711  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pastorek, Jaromir  
 ; APPLICANT: Zavada, Jan  
 ; APPLICANT: Pastorekova, Silvia  
 ; APPLICANT: Pastorek, Jaromir  
 ; APPLICANT: Zavada, Jan  
 ; APPLICANT: MN Gene and Protein  
 ; TITLE OF INVENTION: MN Gene and Protein  
 ; NUMBER OF SEQUENCES: 86  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSE: Leona L. Launder  
 ; STREET: 6 Mariposa Court  
 ; CITY: Tiburon  
 ; STATE: California  
 ; ZIP: 94920  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patientin Release #1.0, Version #1.30 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/477,504A  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 424  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/260,190  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/477,504A  
 FILING DATE: 15-JUN-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3D  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-435-2034  
 TELEFAX: 415-435-0727  
 INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 ; US-08-486-756A-65  
 INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 ; US-08-486-756A-65  
 Query Match 0 4%; Score 78.4; DB 4; Length 105;  
 Best Local Similarity 84.6%; Pred. No. 7e-08;  
 Matches 88; Conservative 0; Mismatches 16; Indels 0; Gaps 0; US-08-486-756A-65  
 ; Sequence 65, Application US/08486756A  
 ; Patent No. 5981711  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pastorekova, Silvia  
 ; APPLICANT: Pastorek, Jaromir  
 ; APPLICANT: Zavada, Jan  
 ; APPLICANT: MN Gene and Protein  
 ; TITLE OF INVENTION: MN Gene and Protein  
 ; NUMBER OF SEQUENCES: 86  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSE: Leona L. Launder  
 ; STREET: 6 Mariposa Court

RESULT 2  
 US-08-477-504A-65  
 ; Sequence 65, Application US/08477504A  
 ; Patent No. 5981711  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pastorekova, Silvia  
 ; APPLICANT: Pastorek, Jaromir  
 ; APPLICANT: Zavada, Jan  
 ; APPLICANT: MN Gene and Protein  
 ; TITLE OF INVENTION: MN Gene and Protein  
 ; NUMBER OF SEQUENCES: 86  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSE: Leona L. Launder  
 ; STREET: 6 Mariposa Court

Query Match 0 4%; Score 78.4; DB 4; Length 105;  
 Best Local Similarity 84.6%; Pred. No. 7e-08;  
 Matches 88; Conservative 0; Mismatches 16; Indels 0; Gaps 0; US-08-485-862B-65  
 ; Sequence 65, Application US/08485862B  
 ; Patent No. 5989838  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Zavada, Jan  
 ; APPLICANT: Pastorekova, Silvia  
 ; APPLICANT: Pastorek, Jaromir  
 ; APPLICANT: Zavada, Jan  
 ; APPLICANT: MN Gene and Protein  
 ; TITLE OF INVENTION: MN Gene and Protein  
 ; NUMBER OF SEQUENCES: 86  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSE: Leona L. Launder  
 ; STREET: 6 Mariposa Court

RESULT 3  
 RESULT 3

CITY: Tiburon  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94920

COMPUTER READABLE FORM:  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/185,862B  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/477,504  
 FILING DATE: 07-JUN-1995  
 APPLICATION NUMBER: US 08/260,190  
 FILING DATE: 15-JUN-1994

ATTORNEY/AGENT INFORMATION:  
 NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3D

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-435-2034  
 TELEFAX: 415-435-0727

INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single

TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO

US-08-485-862B-65

---

Query Match 0.4%; Score 78.4; DB 4; Length 105;  
 Best Local Similarity 84.6%; Pred. No. 7e-08; Mismatches 0; Gaps 0;  
 Matches 88; Conservative 0; MisMatches 16; Indels 0; gaps 0;

Qy 12868 TTTTGTGATTTAGAGATGGAGTTGCCGCGTTAGCCAGGATGGCTCGAATCTCC 12927  
 Db 2 TTTTACATCTTGTAGAGACAGGGTTACCATATTGGCAGGCTGCCTCAACTCC 61

Qy 12928 TGACCTTGTCGATCCACGGCTCGGCTCCAAATGCTGGAT 12971  
 Db 62 TGACCTTGTCGATCCACGGCTCGGCTCCAAATGCTGGAT 105

RESULT 5  
 US-08-787-739-65  
 ; Sequence 65, Application US/08787739

---

GENERAL INFORMATION:  
 APPLICANT: Zavada, Jan  
 APPLICANT: Pastorekova, Silvia  
 TITLE OF INVENTION: MN Gene and Protein  
 NUMBER OF SEQUENCES: 96

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Leona L. Lauder  
 STREET: 369 Pine Street, Suite 610  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94104

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

---

APPLICATION NUMBER: US/08/787,739  
 FILING DATE: 24-JAN-1997

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/485,049  
 FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/486,756  
 FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/477,504  
 FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/481,658  
 FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/485,862  
 FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/487,077  
 FILING DATE: 07-JUN-1995

ATTORNEY/AGENT INFORMATION:  
 NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.4

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-981-2034  
 TELEFAX: 415-981-0332

INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double

TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO

US-08-787-739-65

---

Query Match 0.4%; Score 78.4; DB 5; Length 105;  
 Best Local Similarity 84.6%; Pred. No. 7e-08; Mismatches 0; Gaps 0;  
 Matches 88; Conservative 0; MisMatches 16; Indels 0; gaps 0;

Qy 12868 TTTTGTGATTTAGAGATGGAGTTGCCGCGTTAGCCAGGATGGCTCGAATCTCC 12927  
 Db 2 TTTTACATCTTGTAGAGACAGGGTTACCATATTGGCAGGCTGCCTCAACTCC 61

Qy 12928 TGACCTTGTCGATCCACGGCTCGGCTCCAAATGCTGGAT 12971  
 Db 62 TGACCTTGTCGATCCACGGCTCGGCTCCAAATGCTGGAT 105

RESULT 6  
 US-08-481-658B-65/c  
 ; Sequence 65, Application US/08481658B  
 ; Patent No. 5935075  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Zavada, Jan  
 ; APPLICANT: Pastorekova, Silvia  
 ; TITLE OF INVENTION: MN Gene and Protein  
 ; NUMBER OF SEQUENCES: 86  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Leona L. Lauder  
 ; STREET: 6 Mariposa Court  
 ; CITY: Tiburon  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94920

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, version #1.30 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/4481,598B  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 424  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/260,190  
 FILING DATE: 15-JUN-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3E  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-435-2034  
 TELEFAX: 415-435-0727  
 INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 ;US-08-481-658B-65

Query Match 0.4%; Score 72.8; DB 4; Length 105;  
 Best Local Similarity 86.8%; Pred. No. 1e-06; 0; Mismatches 12; Indels 2; Gaps 1;  
 Matches 92; Conservative 0;

QY 8140 ATCCAGACTTGCAGGTGAGATCAGTCAGGTTGGAGCCA 8199  
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 105 ATCCAGACTTGGAGGGCGAGCTGGGATAC--AAGGTAGGATTGGAGCA 48  
 QY 8200 GCCTGCCAACATGGTGAACCTGCTCCACTAAATAACAA 8245  
 ||||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 47 GCCTGCCAACATGGTGAACCTGCTCCACTAAATAACAA 2  
 QY 8200 GCCTGCCAACATGGTGAACCTGCTCCACTAAATAACAA 8245  
 ||||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 47 GCCTGCCAACATGGTGAACCTGCTCCACTAAATAACAA 2

Query Match 0.4%; Score 72.8; DB 4; Length 105;  
 Best Local Similarity 86.8%; Pred. No. 1e-06; 0; Mismatches 12; Indels 2; Gaps 1;  
 Matches 92; Conservative 0;

Query Match 0.4%; Score 72.8; DB 4; Length 105;  
 Best Local Similarity 86.8%; Pred. No. 1e-06; 0; Mismatches 12; Indels 2; Gaps 1;

Sequence 65, Application US/08486756A  
 ; Patent No. 598171

GENERAL INFORMATION:

APPLICANT: Zavada, Jan  
 APPLICANT: Pastorekova, Silvia  
 APPLICANT: Pastorek, Jaromir  
 TITLE OF INVENTION: MN Gene and Protein  
 NUMBER OF SEQUENCES: 86

CORRESPONDENCE ADDRESS:

ADRESSEER: Leona L. Lauder  
 STREET: 6 Mariposa Court  
 CITY: Tiburon  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94920

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/486,756A  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 424  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/260,190  
 FILING DATE: 15-JUN-1994

ATTORNEY/AGENT INFORMATION:

NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3C  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-435-2034  
 TELEFAX: 415-435-0727

INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 ;US-08-477-504A-65

Query Match 0.4%; Score 72.8; DB 4; Length 105;  
 Best Local Similarity 86.8%; Pred. No. 1e-06; 0; Mismatches 12; Indels 2; Gaps 1;  
 Matches 92; Conservative 0;

Sequence 65, Application US/08486756A  
 ; Patent No. 598171

GENERAL INFORMATION:

APPLICANT: Zavada, Jan  
 APPLICANT: Pastorekova, Silvia  
 APPLICANT: Pastorek, Jaromir  
 TITLE OF INVENTION: MN Gene and Protein  
 NUMBER OF SEQUENCES: 86

CORRESPONDENCE ADDRESS:

ADRESSEER: Leona L. Lauder  
 STREET: 6 Mariposa Court  
 CITY: Tiburon  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94920

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/486,756A  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 424  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/260,190  
 FILING DATE: 15-JUN-1994

ATTORNEY/AGENT INFORMATION:

NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3C  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-435-2034  
 TELEFAX: 415-435-0727

INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear

NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3D  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-435-2034  
 TELEFAX: 415-435-0727

MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; US-08-486-756A-65

Query Match 0.4%; Score 72.8; DB 4; Length 105;  
Best Local Similarity 86.8%; Pred. No. 1e-06; Mismatches 0;  
Matches 92; Conservative 0; Indels 2; Gaps 1;

QY 8140 ATCCAGACACTTGGCAGGCTGAGCGGGCAGATCACTTGAGGTGAGACCA 8199  
Db 105 ATCCAGACACTTGGGAGGCCAGCTGGATCAC -- AAGGCAGGATTGAGAGCA 48

QY 8200 GCCTGGCCAACTGGTGAACCCCTGTCCTCAATAAATACAAAAA 8245  
Db 47 GCCTGGCCAAATGGTGAACCCCTGTCCTCAATAAATACAAAAA 2

RESULT 9

DS-08-485-862B-65/c

Sequence 65, Application US/08485862B

Patent No. 5989838

GENERAL INFORMATION:

APPLICANT: Zavada, Jan

APPLICANT: Pastorekova, Silvia

TITLE OF INVENTION: MN Gene and Protein

NUMBER OF SEQUENCES: 86

CORRESPONDENCE ADDRESS:

ADDRESSEE: Leona L. Lauder

STREET: 6 Mariposa Court

CITY: Tiburon

STATE: California

COUNTRY: USA

ZIP: 94920

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/485,862B

FILING DATE: 07-JUN-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/477,504

FILING DATE: 07-JUN-1995

ATTORNEY/AGENT INFORMATION:

NAME: Lauder, Leona L.

REGISTRATION NUMBER: 30,863

REFERENCE/DOCKET NUMBER: D-0021.3D

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-435-2034

TELEFAX: 415-431-0727

INFORMATION FOR SEQ ID NO: 65:

SEQUENCE CHARACTERISTICS:

LENGTH: 105 base Pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-08-485-862B-65

QY 8140 ATCCAGACACTTGGCAGGCTGAGCGGGCAGATCACTTGAGGTGAGACCA 8199  
Db 105 ATCCAGACACTTGGGAGGCCAGCTGGATCAC -- AAGGCAGGATTGAGAGCA 48

QY 8200 GCCTGGCCAACTGGTGAACCCCTGTCCTCAATAAATACAAAAA 8245  
Db 47 GCCTGGCCAAATGGTGAACCCCTGTCCTCAATAAATACAAAAA 2

RESULT 10

US-08-787-739-65/c

Sequence 65, Application US/08787739

Patent No. 6027887

GENERAL INFORMATION:

APPLICANT: Zavada, Jan

APPLICANT: Pastorekova, Silvia

APPLICANT: Pastorek, Jaromir

TITLE OF INVENTION: MN Gene and Protein

NUMBER OF SEQUENCES: 96

CORRESPONDENCE ADDRESS:

ADDRESSEE: Leona L. Lauder

STREET: 369 Pine Street, Suite 610

CITY: San Francisco

STATE: California

COUNTRY: USA

ZIP: 94104

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US 08/787,739

FILING DATE: 24-JAN-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/485,049

FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/486,756

FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/477,504

FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/481,658

FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/485,862

FILING DATE: 07-JUN-1995

ATTORNEY/AGENT INFORMATION:

NAME: Lauder, Leona L.

REGISTRATION NUMBER: 30,863

REFERENCE/DOCKET NUMBER: D-0021.4

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-981-2034

TELEFAX: 415-981-0332

INFORMATION FOR SEQ ID NO: 65:

SEQUENCE CHARACTERISTICS:

LENGTH: 105 base Pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-08-787-739-65

Query Match 0.4%; Score 72.8; DB 5; Length 105;  
 Best Local Similarity 86.8%; Pred. No. 1e-06; Matches 92; Conservative 0; Mismatches 1;  
 Matches 92; Conservative 0; Indels 2; Gaps 1;

QY 8140 ATCCAGACATTGGCAGGGTGAGCGGGAGATCACTTGAGGTCAGGAGTTGAGACCA 8199  
 Db 105 ATCCAGACATTGGCAGGGAGCTGAGTAC - AAGTCAGGATGAGAGCA 48

QY 8200 GGCCTGCCAACATGTTGAAACCCCTGTCTCACTAAATACAAAAA 8245  
 Db 47 GCCTGGCCAAATATGGTGAACCCCTGTCTCACTAAAGATGTTAAAAA 2

RESULT 11  
 US-08-454-557C-91  
 ; Sequence 91, Application US/08454557C  
 ; Patent No. 5830670  
 ; GENERAL INFORMATION:  
 APPLICANT: de la Monte, Suzanne  
 TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection  
 NUMBER OF SEQUENCES: 121  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3934

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/340,426D  
 FILING DATE: 14-Nov-1994  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REGISTRATION NUMBER: 36,203  
 REFERENCE/DOCKET NUMBER: 0609.3840003  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 TELEFAX: (202) 371-2340  
 INFORMATION FOR SEQ ID NO: 91:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 US-08-340-426D-91

APPLICATION NUMBER: US/08/454,557C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REGISTRATION NUMBER: 36,203  
 REFERENCE/DOCKET NUMBER: 0609.3840003  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 TELEFAX: (202) 371-2340  
 INFORMATION FOR SEQ ID NO: 91:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 US-08-454-557C-91

Query Match 0.4%; Score 63.8; DB 3; Length 84;  
 Best Local Similarity 85.5%; Pred. No. 6.8e-05; Matches 71; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 12899 CGGTGTTAGCCAGGGTGGCTCGATCTCCGACCTGGTGAACCGGCTCGGCCCTCCC 12958  
 Db 1 CCATGTCATCAGGGTGGCTCGACCTCCCTGACCTGGTGAATCCGCCGCTCAGCTCCC 60

QY 12959 AAAGCTGGATTACAGGATG 12981  
 Db 61 AAAGCTGGATTACAGGATG 83

RESULT 13  
 US-08-450-673C-91  
 ; Sequence 91, Application US/08450673C  
 ; Patent No. 5548888  
 ; GENERAL INFORMATION:  
 APPLICANT: de la Monte, Suzanne  
 APPLICANT: Wands, Jack R.  
 TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection  
 NUMBER OF SEQUENCES: 121  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3934

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25

RESULT 12  
 US-08-340-426D-91  
 ; Sequence 91, Application US/08340426D  
 ; Patent No. 5948634

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/450,673C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig Steven R.  
 REGISTRATION NUMBER: 36-203  
 REFERENCE/DOCKET NUMBER: 0009.3840004  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2540  
 TELEX/FAX: (202) 371-2540

INFORMATION FOR SEQ ID NO: 91:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both

US-08-450-673C-91

Query Match ;  
 Best Local Similarity ;  
 Matches 0; ;

Query Match 0.4%; Score 63.8; DB 4; Length 84;  
 Best Local Similarity 85.5%; Pred. No. 6.8e-05;  
 Matches 71; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 12899 CGGTGTTAGGCCAGGAGTGTCTCGATCTCCACGGCTACGGCTCGGCTCCC 12958  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 1 CCATGTCATCAGGTGTCGACTCTGACCTCGTGTGATCCGCAGCTCC 60

QY 12959 AAGTGCTGGATTACAGGCATG 12981  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 61 AAGTGCTGGATTACAGGCATG 83

RESULT 14  
 PCT-US95-17111A-91

; Sequence 91, Application PC/US951711A

GENERAL INFORMATION:

APPLICANT: de la Monte, Suzanne

APPLICANT: Wands, Jack R.

TOPOLogy: both  
 PCT-US95-17111A-91

RESULT 15  
 US-08-454-557C-70

; Sequence 70, Application US/08454557C

; Patent No. 5830670

GENERAL INFORMATION:

APPLICANT: de la Monte, Suzanne

APPLICANT: Wands, Jack R.

TOPOLogy: both  
 PCT-US95-17111A-91

RESULT 16  
 US-08-454-557C-70

; Sequence 70, Application US/08454557C

; Patent No. 5830670

GENERAL INFORMATION:

APPLICANT: de la Monte, Suzanne

APPLICANT: Wands, Jack R.

TOPOLogy: both  
 PCT-US95-17111A-91

RESULT 17  
 US-08-454-557C-70

; Sequence 70, Application US/08454557C

; Patent No. 5830670

GENERAL INFORMATION:

APPLICANT: de la Monte, Suzanne

APPLICANT: Wands, Jack R.

TOPOLogy: both  
 PCT-US95-17111A-91

RESULT 18  
 US-08-454-557C-70

; Sequence 70, Application US/08454557C

; Patent No. 5830670

GENERAL INFORMATION:

APPLICANT: de la Monte, Suzanne

APPLICANT: Wands, Jack R.

TOPOLogy: both  
 PCT-US95-17111A-91

RESULT 19  
 US-08-454-557C-70

; Sequence 70, Application US/08454557C

; Patent No. 5830670

GENERAL INFORMATION:

APPLICANT: de la Monte, Suzanne

APPLICANT: Wands, Jack R.

TOPOLogy: both  
 PCT-US95-17111A-91

RESULT 20  
 US-08-454-557C-70

; Sequence 70, Application US/08454557C

; Patent No. 5830670

GENERAL INFORMATION:

APPLICANT: de la Monte, Suzanne

APPLICANT: Wands, Jack R.

TOPOLogy: both  
 PCT-US95-17111A-91

RESULT 21  
 US-08-454-557C-70

; Sequence 70, Application US/08454557C

; Patent No. 5830670

GENERAL INFORMATION:

APPLICANT: de la Monte, Suzanne

APPLICANT: Wands, Jack R.

APPLICANT: Wands, Jack R.</p

Wed Jun 21 14:43:38 2000

us-08-852-495c-1\_copy\_196000\_214000.rni

Page 8

Search completed: June 17, 2000, 10:50:33  
Job time: 251763 sec

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: June 17, 2000, 10:40:36 ; Search time 13662.6 Seconds  
(w/o alignments)  
-1568.842 Million cell updates/sec

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**Perfect score:** 22034  
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**Scoring table:** IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

**Searched:** 882769 seqs, -486395729 residues

Total number of hits satisfying chosen parameters: 370290

Minimum DB seq length: 10  
Maximum DB seq length: 110

Post-processing: Minimum Match 0% Listing first 45 summaries

Result No.	Score	Query Length	DB ID	Description
1	98.4	0.4	108 HSLLDRN2	X05250 Human LDL-r
2	90.8	0.4	107 9 HUMALCE62	M87924 Human carc
3	90.4	0.4	108 HSLLRN2	X05250 Human LDL-r
4	89.6	0.4	108 11 HSU67803	U67803 Human small
5	87.8	0.4	108 HSLLDRD1	X05249 Human LDL-r
6	87.8	0.4	108 10 HSLLDRD2	X05251 Human LDL-r
7	87.2	0.4	103 9 HUMALCE221	M87895 Human carc
8	82.4	0.4	104 9 HUMALCE272	M87899 Human carc
9	81.4	0.4	108 10 HSLLDRD1	X05249 Human LDL-r
10	81.4	0.4	108 10 HSLLDRD2	X05251 Human LDL-r
11	81.6	0.4	108 11 HSU67804	U67804 Human small
12	79.6	0.4	107 9 HUMALCE152	M87924 Human carc
13	78.8	0.4	103 9 HUMALCE221	M87895 Human carc
14	78.8	0.4	110 9 HUMALCE33	M87899 Human carc
15	76.8	0.3	108 10 HSLLD112	X05248 Human LDL-r
16	76.2	0.3	101 10 S79560	S79560 HRX (Intron
17	75.8	0.3	108 9 HOMID03M5	D16965 Human HepG2
18	75.8	0.3	103 13 HS81CR	X7789 Human seqe
19	75.2	0.3	108 11 HSU67808	U67808 Human small
20	74.4	0.3	110 11 HSU67807	U67807 Human small
21	73.6	0.3	21 21 S795743	G32743 A009P31 Hum
22	72.6	0.3	108 9 HOMID03M5	D16965 Human HepG2
23	72	0.3	90 9 HSLLDRML	K03555 Human low d
24	72	0.3	91 13 HSU78154A	L30244 Human STS U
25	70.4	0.3	107 11 HSU67806	U67806 Human small
26	70.4	0.3	108 10 HSLLD112	X05248 Human LDL-r
27	69.4	0.3	100 13 HUMTP311A	L31299 Human STS U
28	69.6	0.3	104 9 HUMALCE272	M87899 Human carc
29	68.4	0.3	79 10 S73203	S73203 ALL-1 (stand
30	68.4	0.3	95 13 HSUTT002B	L30176 Human STS U
31	68.2	0.3	102 13 G32906	G32906 A009W09 Hum
32	67	0.3	84 5 AR051521	AR051521 Sequence
33	67	0.3	108 10 HSSTHR1B	G43535 WTAF-293-S
34	66	0.3	91 13 HUMUT164A	L30244 Human STS U
35	66.2	0.3	100 9 HUMALNSA	M45223 Human GALNS
36	65.6	0.3	80 9 HUMBKAPE	M35135 Human alpha
37	65.8	0.3	97 9 HOMDLR22	M14180 Human low d
38	65.2	0.3	95 10 HSSTHR1B	X66361 H. sapiens m
39	64.4	0.3	100 13 L31299	L31299 Human STS U
40	64	0.3	80 9 HUMBKAPE	M36135 Human alpha
41	64	0.3	107 13 G32919	G32919 A009W27 Hum
42	63.4	0.3	90 10 HSU19407	U19407 Human isola
43	63.6	0.3	95 13 HUMUT002B	L30176 Human STS U
44	63.8	0.3	106 13 G32743	G32743 A009P31 Hum
45	63.8	0.3	108 13 G32614	G32614 A009K21 Hum

**ALIGNMENTS**

RESULT	1	HSIDLRN2/c	DEFINITION	Human LDL-receptor gene intron 14 fragment (normal gene).	PRI	20-MAY-1992
LOCUS	HSIDLRN2	108 bp	DNA			
ACCESSION	X05250					
VERSION	X05250.1	GR:34337				
KEYWORDS	Alu repetitive sequence; low density lipoprotein receptor.					
SOURCE	human					
ORGANISM	Homo sapiens					
REFERENCE	1 (bases 1 to 108)					
AUTHORS	Horsthemke,B., Beisiegel,U., Dunning,A., Havinga,J.R., Williamson,R. and Humphries,S.					
TITLE	Unequal crossing-over between two alu-repetitive DNA sequences in the low-density-lipoprotein-receptor gene. A possible mechanism for the defect in a patient with familial hypercholesterolemia					
JOURNAL	Eur. J. Biochem.	164 (1), 77-81 (1987)				
MEDLINE	87161901					
COMMENT	See X05252 for deletion Junction Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.					
FEATURES	Location/Qualifiers					
source	1.. 108					
BASE COUNT	28 a 23 c 39 g 18 t					
ORIGIN	/organism="Homo sapiens" /db_xref="taxon:9606"					
RESULT	2	HUMALCE162/c	DEFINITION	Human carcinoma cell-derived Alu RNA transcript, clone CE162.	PRI	20-MAY-1994
LOCUS	HUMALCE162	107 bp	ss-RNA			
DEFINITION	Human carcinoma cell-derived Alu RNA transcript, clone CE162.					
ACCESSION	M87924					
VERSION	M87924.1	GI:174871				
KEYWORDS	Alu repeat.					
SOURCE	Homo sapiens male embryo carcinoma cDNA to other RNA.					
ORGANISM	Homo sapiens					
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.					
AUTHORS	1 (bases 1 to 107)					
TITLE	Sinnett,D., Richer,C., Deragon,J.-M. and Labuda,D.					
JOURNAL	Post-transcriptional selection of master sequences J. Mol. Biol.	(1992) In press				
FEATURES	Location/Qualifiers					
source	1.. 107					
RESULT	3	HSIDLRN2	DEFINITION	Human LDL-receptor gene intron 14 fragment (normal gene).	PRI	20-MAY-1992
LOCUS	HSIDLRN2	108 bp	DNA			
ACCESSION	X05250					
VERSION	X05250.1	GR:34337				
KEYWORDS	Alu repetitive sequence; low density lipoprotein receptor.					
SOURCE	human					
ORGANISM	Homo sapiens					
REFERENCE	1 (bases 1 to 108)					
AUTHORS	Horsthemke,B., Beisiegel,U., Dunning,A., Havinga,J.R., Williamson,R. and Humphries,S.					
TITLE	Unequal crossing-over between two alu-repetitive DNA sequences in the low-density-lipoprotein-receptor gene. A possible mechanism for the defect in a patient with familial hypercholesterolemia					
JOURNAL	Eur. J. Biochem.	164 (1), 77-81 (1987)				
MEDLINE	87161901					
COMMENT	See X05252 for deletion Junction Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.					
FEATURES	Location/Qualifiers					
source	1.. 108					
BASE COUNT	28 a 23 c 39 g 18 t					
ORIGIN	/organism="Homo sapiens" /db_xref="taxon:9606"					
RESULT	4	HSU07803/c	DEFINITION	Human small cytoplasmic Alu transcript.	PRI	01-AUG-1997
LOCUS	HSU07803	108 bp	RNA			
DEFINITION	Human small cytoplasmic Alu transcript.					
ACCESSION	U67803					
VERSION	U67803.1	GI:2289917				
KEYWORDS	Alu.					
SOURCE	human.					
ORGANISM	Homo sapiens					
REFERENCE	1 (bases 1 to 108)					
AUTHORS	Butcheria; Primates; Catarrhini; Hominidae; Homo.					
TITLE	CDNAs derived from primary and small cytoplasmic Alu (scalu)					

FEATURES	source	Query Match Best Local Similarity 95%; Predicted No. 0.00014; Mismatches 1.	2 (bases 1 to 108)
BASE COUNT	23 a	/note="repeat-region /clone="ITS-ALU2" /db_xref="taxon:9606" /note="scalu" /rpt_type="dispersed	1. -108
ORIGIN	39 c	/organism="Homo sapiens"	30 g
RESULT	5	/db_xref="taxon:9606" /cell_type="blood leukocytes from a patient with familial hypercholesterolemia" /note="deletion junction region intron 12/ intron 15"	16 t
FEATURES	source	Query Match Best Local Similarity 95.8%; Predicted No. 7.5e-05; Mismatches 4;	0.4%; Score 89.6; DB 11; Length 108;
LOCUS	HSLDRD1	DEFINITION Human LDL-receptor mutated gene with intron 14 deletion junction.	PRI 20-MAY-1992
ACCESSION	X05249	VERSION X05251	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
VERSION	X0549.1	COMMENT 87161901	See X05250 for corresponding normal gene sequence
KEYWORDS	XO549.1 GI:34335	ORGANISM Homo sapiens	In the defective LDL-receptor gene the deletion occurred between two alu-repetitive sequences, that are in the same direction, the deletion eliminates exons 13 and 14 and changes the reading frame of the resulting spliced mRNA. Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.
SOURCE	Human LDL-receptor mutated gene with intron 12 deletion junction.	FEATURES source	Location/Qualifiers
ORGANISM	Primates; Cattarrhini; Hominidae; Homo.	Query Match Best Local Similarity 95.8%; Predicted No. 0.00014; Mismatches 12;	0.4%; Score 87.8; DB 10; Length 108;
RESULT	6	DEFINITION Human LDL-receptor mutated gene with intron 14 deletion junction.	PRI 20-MAY-1992
LOCUS	HSLDRD2	VERSION X05251.1	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
DEFINITION	Human LDL-receptor mutated gene with intron 14 deletion junction.	COMMENT 87161901	See X05250 for corresponding normal gene sequence
ACCESSION	X05251	ORGANISM Homo sapiens	In the defective LDL-receptor gene the deletion occurred between two alu-repetitive sequences, that are in the same direction, the deletion eliminates exons 13 and 14 and changes the reading frame of the resulting spliced mRNA. Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.
VERSION	X0549.1 GI:34336	FEATURES source	Location/Qualifiers
KEYWORDS	Alu repetitive sequence; low density lipoprotein receptor.	Query Match Best Local Similarity 95.8%; Predicted No. 0.00014; Mismatches 12;	0.4%; Score 87.8; DB 10; Length 108;
SOURCE	Human LDL-receptor mutated gene with intron 14 deletion junction.	DEFINITION Human carcinoma cell-derived Alu RNA transcript, clone CE221.	PRI 15-APR-1994
ORGANISM	Primates; Cattarrhini; Hominidae; Homo.	VERSION M87896.1	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
RESULT	7	DEFINITION Human carcinoma cell-derived Alu RNA transcript, clone CE221.	PRI 15-APR-1994
LOCUS	HUMACE221	VERSION M87896.1 GI:174874	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
DEFINITION	Human carcinoma cell-derived Alu RNA transcript, clone CE221.	KEYWORDS Alu repeat.	Location/Qualifiers
ACCESSION	M87895	SOURCE Homo sapiens	Query Match Best Local Similarity 95%; Predicted No. 0.00014; Mismatches 1.
VERSION	M87896.1 GI:174874	DEFINITION Human embryo carcinoma cDNA to other RNA.	0.4%; Score 87.8; DB 10; Length 108;
KEYWORDS	Alu repeat.	VERSION M87896.1 GI:174874	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
SOURCE	Homo sapiens	DEFINITION Human embryo carcinoma cDNA to other RNA.	PRI 15-APR-1994
ORGANISM	Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;	VERSION M87896.1 GI:174874	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
RESULT	8	DEFINITION Human embryo carcinoma cDNA to other RNA.	PRI 15-APR-1994
LOCUS	HUMACE222	VERSION M87896.1 GI:174874	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
DEFINITION	Human embryo carcinoma cDNA to other RNA.	KEYWORDS Homo sapiens	Location/Qualifiers
ACCESSION	M87895	SOURCE Homo sapiens	Query Match Best Local Similarity 95%; Predicted No. 0.00014; Mismatches 1.
VERSION	M87896.1 GI:174874	DEFINITION Human embryo carcinoma cDNA to other RNA.	0.4%; Score 87.8; DB 10; Length 108;
KEYWORDS	Alu repeat.	VERSION M87896.1 GI:174874	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
SOURCE	Homo sapiens	DEFINITION Human embryo carcinoma cDNA to other RNA.	PRI 15-APR-1994
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;	VERSION M87896.1 GI:174874	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
RESULT	9	DEFINITION Human embryo carcinoma cDNA to other RNA.	PRI 15-APR-1994
LOCUS	HUMACE223	VERSION M87896.1 GI:174874	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
DEFINITION	Human embryo carcinoma cDNA to other RNA.	KEYWORDS Homo sapiens	Location/Qualifiers
ACCESSION	M87895	SOURCE Homo sapiens	Query Match Best Local Similarity 95%; Predicted No. 0.00014; Mismatches 1.
VERSION	M87896.1 GI:174874	DEFINITION Human embryo carcinoma cDNA to other RNA.	0.4%; Score 87.8; DB 10; Length 108;
KEYWORDS	Alu repeat.	VERSION M87896.1 GI:174874	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
SOURCE	Homo sapiens	DEFINITION Human embryo carcinoma cDNA to other RNA.	PRI 15-APR-1994
ORGANISM	Eukaryota; Primates; Cattarrhini; Hominidae; Homo.	VERSION M87896.1 GI:174874	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
RESULT	10	DEFINITION Human embryo carcinoma cDNA to other RNA.	PRI 15-APR-1994
LOCUS	HUMACE224	VERSION M87896.1 GI:174874	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
DEFINITION	Human embryo carcinoma cDNA to other RNA.	KEYWORDS Homo sapiens	Location/Qualifiers
ACCESSION	M87895	SOURCE Homo sapiens	Query Match Best Local Similarity 95%; Predicted No. 0.00014; Mismatches 1.
VERSION	M87896.1 GI:174874	DEFINITION Human embryo carcinoma cDNA to other RNA.	0.4%; Score 87.8; DB 10; Length 108;
KEYWORDS	Alu repeat.	VERSION M87896.1 GI:174874	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)
SOURCE	Homo sapiens	DEFINITION Human embryo carcinoma cDNA to other RNA.	PRI 15-APR-1994
ORGANISM	Eukaryota; Primates; Cattarrhini; Hominidae; Homo.	VERSION M87896.1 GI:174874	JOURNAL Eur. J. Biochem. 164 (1), 77-81 (1987)

TITLE	Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences
JOURNAL	J. Mol. Biol. (1992) In press
FEATURES	Locotion/Qualifiers
source	1. .103 'organism'='Homo sapiens' 'db_xref'='taxon:9606' 'cell_line'='Ntera201' 'dev_stage'='embryo' 'sex'='male' 'tissue_type'='carcinoma'
BASE COUNT	25 a 27 c 33 g 18 t
ORIGIN	
RESULT	8
HUMANACE27/c	
LOCUS	HUMANACE272
DEFINITION	104 bp ss-RNA
ACCESSION	PRI
VERSION	M87899
KEYWORDS	Human carcinoma cell-derived Alu RNA transcript, clone CE272.
SOURCE	
ORGANISM	
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
REFERENCE	1 (bases 1 to 104)
AUTHORS	Sinnett,D., Richer,C., Deragon,J.-M. and Labuda,D.
TITLE	Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences
JOURNAL	J. Mol. Biol. (1992) In press
FEATURES	Location/Qualifiers
source	1. .104 'organism'='Homo sapiens' 'db_xref'='taxon:9606' 'cell_line'='Ntera201' 'dev_stage'='embryo' 'sex'='male' 'tissue_type'='carcinoma'
BASE COUNT	22 a 26 c 37 g 19 t
ORIGIN	
RESULT	10
HSLDLRD2	
LOCUS	HSLDLRD2
DEFINITION	108 bp DNA
ACCESSION	PRI
VERSION	X0251
KEYWORDS	Human LDL-receptor mutated gene with intron 14 deletion junction.
SOURCE	
ORGANISM	
Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
REFERENCE	1 (bases 1 to 108)
AUTHORS	Horsthemke,B., Beisiegel,U., Dunning,A., Havinga,J.R., Williamson,R. and Humphries,S.
TITLE	Inequal crossing-over between two alu-repetitive DNA sequences in the low density-lipoprotein receptor gene. A possible mechanism for the defect in a patient with familial hypercholesterolemia
JOURNAL	Eur. J. Biochem. 244 (1), 77-81 (1987)
MEDLINE	87161901
FEATURES	Location/Qualifiers
source	*source: hypercholesterolemia See X0251 for corresponding normal gene sequence. In the defective LDL-receptor gene the deletion occurred between two alu-repetitive sequences, that are in the same direction, the deletion eliminates exons 13 and 14 and changes the reading frame of the resulting spliced mRNA. Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.
RESULT	9
HSLDLRD1/c	
LOCUS	HSLDLRD1
DEFINITION	108 bp DNA
PRIMER	20-MAY-1992
BASE COUNT	44
ORIGIN	
RESULT	9
HSLDLRD1	
LOCUS	HSLDLRD1
DEFINITION	Human LpI-receptor mutated gene with intron 12 deletion junction.
FEATURES	Location/Qualifiers

source  
 1. 108  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /cell\_type="blood leukocytes from a patient with familial"  
 1. 108  
 /note="intron XIV fragment"  
 BASE COUNT 28 a 20 c 40 g 20 t  
 ORIGIN

Query Match 0.4%; Score 81.4; DB 10; Length 108;  
 Best Local Similarity 85.0%; Pred. No. 0.0014; 0; Mismatches 16; Indels 0; Gaps 0;  
 Matches 91; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4976 ACAAAATTCGCTTGAAACCCAGGGGGTGGAGGTGCAATGCCAGT 5035  
 Db 1 ACAAAATTCGCTTGAAACCCAGGGGGTGGAGGTGCAATGCCAGT 60

QY 5036 ACAGGAGAATCGCTTGAAACCCAGGGGGTGGAGGTGCAATGCCAGT 5082  
 Db 61 GCAGGAAATTGGTTGAACCCAGGGCAGAGGTGTTGGAGGGCA 107

RESULT 11  
 HSU6804/c  
 LOCUS HSU67804 108 bp RNA PRI 01-AUG-1997  
 DEFINITION Human small cytoplasmic Alu transcript.  
 ACCESSION U67804  
 VERSION U67804.1 GI:2289918  
 KEYWORDS Alu  
 SOURCE  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Primate; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 108)  
 AUTHORS Shaikh,T.H., Roy,A.M., Kim,J., Batzer,M.A. and Deininger,P.L.  
 TITLE cDNAs derived from primary and small cytoplasmic Alu (scAlu)  
 transcripts  
 JOURNAL J. Mol. Biol. 271 (2), 222-234 (1997)  
 MEDLINE 97415756  
 REFERENCE 2 (bases 1 to 108)  
 AUTHORS Shaikh,T.H., Kim,J., Batzer,M.A. and Deininger,P.L.  
 TITLE Direct Submission  
 JOURNAL Submitted (22-AUG-1996) Human Genetics and Molecular Biology, The  
 Children's Hospital of Philadelphia, 1004F Abramson Research  
 Center, 34th and Civic Center Blvd., Philadelphia, PA 19104, USA

FEATURES source  
 1. 108  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="scAlu13"  
 1. 108  
 /note="scAlu"  
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 BASE COUNT 26 a 38 c 26 g 18 t  
 ORIGIN

Query Match 0.4%; Score 81.6; DB 11; Length 108;  
 Best Local Similarity 90.6%; Pred. No. 0.0013; 0; Mismatches 9; Indels 0; Gaps 0;  
 Matches 87; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 10437 GTAGAGACGGGTTTACCATGTTAACCTGATGCTCGATCTCGATCC 10496  
 Db 97 GGAAAGACGGGTTTACCATGTTAACCTGATGCTCGATCTCGATCC 38

QY 10497 GCCCCCTGACCTCCAAGTGCCTGAGATTACAG 10532  
 Db 37 TCCCCCTTGCCCTCCAAGTGCCTGAGATTACAGG 2

RESULT 12

HUMALCE162 HUMALCE162 107 bp ss-RNA PRI 15-APR-1994  
 LOCUS HUMAN carcinoma cell-derived Alu RNA transcript, clone CE162.  
 DEFINITION Human carcinoma cell-derived Alu RNA transcript, clone CE162.  
 ACCESSION M87924  
 VERSION M87924.1 GI:174871  
 KEYWORDS Alu repeat.  
 SOURCE Homo sapiens  
 ORGANISM Homo sapiens male embryo carcinoma cDNA to other RNA.  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Simnett,D., Richer,C., Deragon,J.-M. and Labuda,D. Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences J. Mol. Biol. (1992) In press  
 FEATURES source  
 1. 107  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
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 /tissue\_type="carcinoma"  
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 BASE COUNT 28 a 30 c 35 g 14 t  
 ORIGIN

Query Match 0.4%; Score 79.6; DB 9; Length 107;  
 Best Local Similarity 86.3%; Pred. No. 0.0027; 0; Mismatches 14; Indels 0; Gaps 0;  
 Matches 88; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 5035 GACAGGAGAATGGCTTGAAACCCAGGGGGTGGAGGTGCAATGCCACT 5094  
 Db 5 GGCAGAGAAATGGCTTGAAACCCGGGGAGCTGAGCTGAGCCAGATGCCACT 64

QY 5095 GCACTCAGGCTGGSGACAGTAAAGTACAGTCGGTTCAAAA 5136  
 Db 65 GCACCTCGACCTGGCGACAGCGAGACTCGCTCAGCAAA 106

RESULT 13  
 HUMALCE221 HUMALCE221 103 bp ss-RNA PRI 15-APR-1994  
 LOCUS Human carcinoma cell-derived Alu RNA transcript, clone CE221.  
 DEFINITION Human carcinoma cell-derived Alu RNA transcript, clone CE221.  
 ACCESSION M87896  
 VERSION M87896.1 GI:174874  
 KEYWORDS Alu repeat.  
 SOURCE  
 ORGANISM Homo sapiens male embryo carcinoma cDNA to other RNA.  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Primate; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 103)  
 AUTHORS Sinnott,D., Richer,C., Deragon,J.-M. and Labuda,D.  
 TITLE Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences J. Mol. Biol. (1992) In press  
 JOURNAL  
 FEATURES source  
 1. 103  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /cell\_line="NTera2D1"  
 /dev\_stage="embryo"  
 /sex="male"  
 /tissue\_type="carcinoma"  
 BASE COUNT 25 a 27 c 33 g 18 t  
 ORIGIN

Query Match 0.4%; Score 78.8; DB 9; Length 103;  
 Best Local Similarity 87.0%; Pred. No. 0.0036; 0; Mismatches 12; Indels 0; Gaps 0;  
 Matches 86; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 5006 OCTGTAATCCAGTATCAGGAGGTGAGCACAGGAGAATCGCTGAAACCCAGGGTGG 5065

source 1. .108  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 complement(<1. .65)  
 /note="Alu repeat."  
 intron 1. .108  
 /note="Intron XII fragment"  
 BASE COUNT 21 a 38 c 20 g 29 t  
 ORIGIN

Query Match 0.3%; Score 76.8; DB 10; Length 108;  
 Best Local Similarity 83.7%; Pred. No. 0.0074; DB 10;  
 Matches 87; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

Query 18268 TGGGCACAGCAACTCCACTCTCGGCTCAAGTATTCCTGCCCTAGCCCTCTGA 18327  
 Db 2 TCGCCCTCACCAACTCTCGGCTCAACCATTTCCCTGCCCTAGCCCTCTTA 61

Query 18328 CTAGCTGGATACAGCTGGTGTACCCACCGCTTAATT 18371  
 Db 62 GTAGCTGGATACAGCTGGTGTACCCACCGCCGCTGATT 105

Search completed: June 17, 2000, 17:34:18  
 Job time: 276942 sec

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RESULT 14  
 HUMACE43/c  
 LOCUS HUMACE43 110 bp ss-RNA PRINTER  
 DEFINITION Human carcinoma cell-derived Alu RNA transcript, clone CE13.  
 ACCESSION M87900  
 VERSION M87900.1 GI:174876  
 KEYWORDS Alu repeat.

SOURCE Homo sapiens male embryo carcinoma cDNA to other RNA.

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Homo sapiens

REFERENCE 1 (bases 1 to 110)  
 AUTHORS Simnett,D., Richer,C., Derragon,J.-M. and Iabuda,D.  
 TITLE Alu RNA transcripts in human embryonal carcinoma cells. Model of post-transcriptional selection of master sequences  
 J. Mol. Biol. (1992) In press

JOURNAL

FEATURES Location/Qualifiers

source 1. .110  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /cell\_lines="Ntera201"  
 /dev\_stage="embryo"  
 /sex="male"  
 /tissue\_type="carcinoma"

BASE COUNT 27 a 31 c 34 g 18 t  
 ORIGIN

Query Match 0.4%; Score 78.8; DB 9; Length 110;  
 Best Local Similarity 84.0%; Pred. No. 0.0036; DB 9;  
 Matches 89; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

Query 10448 GTTTCACCAGTGTACCCAGATGCTGATCTCTGACTCTCGTGATGCCACCTGAG 10507  
 Db 110 GTTTCGTCTAGTTAGCCAGGCTGGCTGTGACTACTGTAGCTGCCATCCCTGCTGG 51

Query 10508 CCTCCCAAAAGTGCTGGATTACAGGTGTGAGCCACQGCGGCCGCC 10553  
 Db 50 CCTCCCAAAGTGCCGGATGTGCTGTGAGCCACGCCGCCGCC 5

RESULT 15  
 HSLDL12  
 LOCUS HSPLDL12 108 bp DNA PRINTER 20-MAY-1992  
 DEFINITION Human LDL-receptor gene intron 12 fragment (normal gene) LDL = low  
 density lipoprotein.

ACCESSION X05248  
 VERSION X05248.1 GI:34334  
 KEYWORDS Alu repetitive sequence; low density lipoprotein receptor; repetitive sequence.

SOURCE Homo sapiens

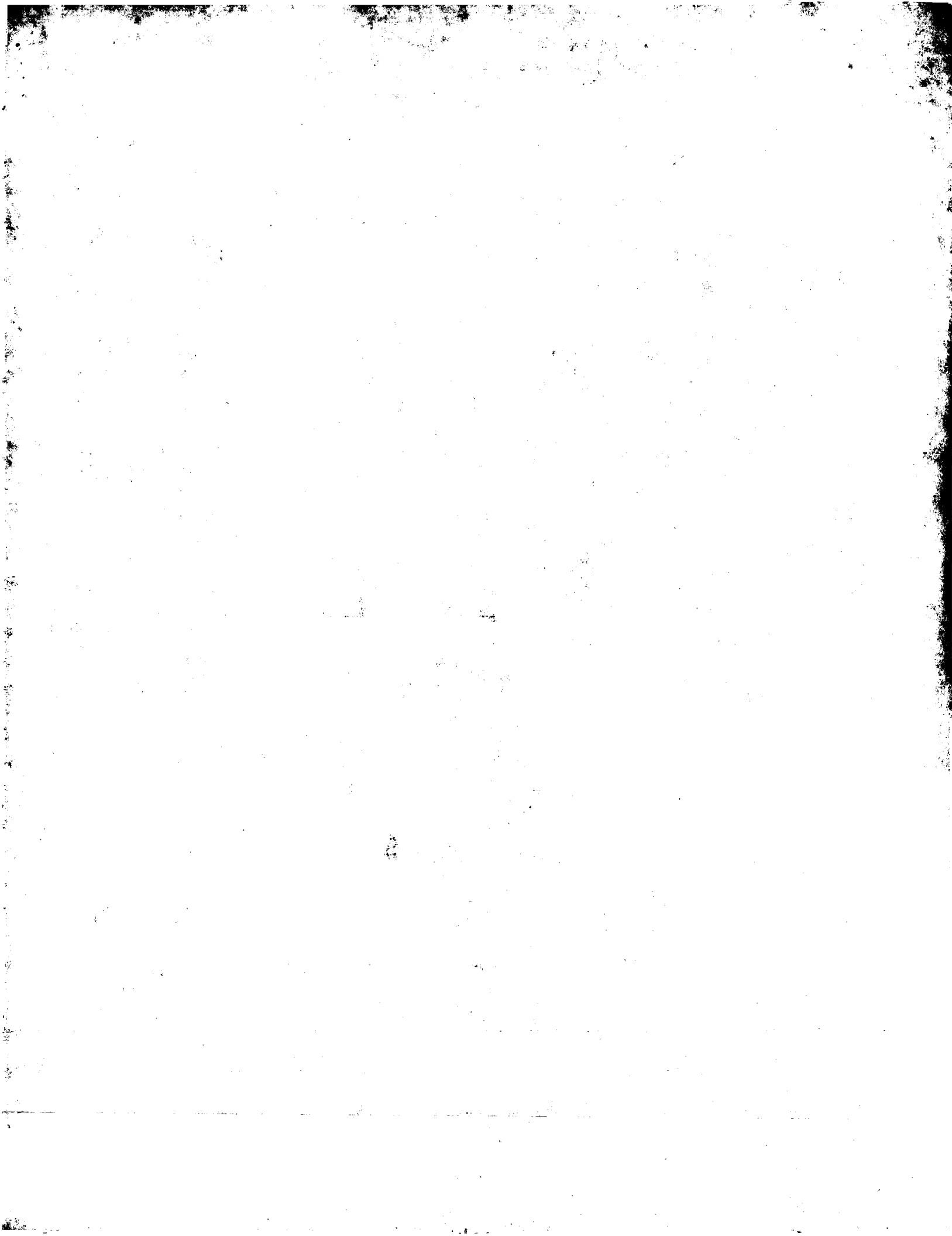
ORGANISM Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 108)  
 AUTHORS Hosthemke,B., Beisiegel,U., Dunning,A., Havinga,J.R., Williamson,R. and Humphries,S.

TITLE Unequal crossing-over between two alu-repetitive DNA sequences in the low-density-lipoprotein-receptor gene. A possible mechanism for the defect in a patient with familial hypercholesterolaemia  
 Eur. J. Biochem. 164 (1), 77-81 (1987)  
 see X05249 for deletion junction

JOURNAL 87161901  
 MEDLINE COMMENT  
 FEATURES Data kindly reviewed (07-DEC-1987) by HUMPHRIES S.  
 Location/Qualifiers





OM nucleic - nucleic search, using sw model									
Run on:									
June 17, 2000, 11:43:23 ; Search time 455.92 Seconds (without alignments)									
12091.447 Million cell updates/sec									
Title:									
Perfect score:	US-08-852-495C-1_COPY_213000_235033								
Sequence:	TTTCGGAGATGATTGGCAT.....TGTGTGTGTGTGTGTG 22034								
Scoring table:	22034								
Scoring table:	IDENTITY_NUC								
Scoring table:	Gapop 10.0 , Gapext 1.0								
Searched:	311555 seqs, 125096042 residues								
Total number of hits satisfying chosen parameters:	433070								
Minimum DB seq length:	10								
Maximum DB seq length:	110								
Post-processing:	Minimum Match 0%								
Post-processing:	Listing first 45 summaries								
database :	N_Geneseq_36:*								
Pred.	No. 1 is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.								
SUMMARIES									
Result No.	Score	Query Match	Length	DB	ID	Description			
1	67.6	0.3	108	1	X12095	X12095	RESULT	1	ALIGNMENTS
C	2	67.2	0.3	100	1	T2492	ID	X12095 standard; DNA; 108 BP.	
C	3	66	0.3	108	1	T26528	AC	X12095;	
C	4	63.4	0.3	108	1	T2509	DT	30-MAR-1999 (first entry)	
C	5	62.6	0.3	91	1	T2854	DE	Human biallelic Polymorphic DNA fragment TIGR-A003M18a.	
C	6	61.8	0.3	108	1	T24892	KW	Polymorphism; biallelic; human; forensic; paternity testing; disease; detection; phenotypic typing; characteristic; infection; hereditary; autoimmune disease; cancer; inflammation; drug; therapy; medicament; treatment; marker; ss.	
C	7	60.8	0.3	100	1	T24892	KW	Homo sapiens.	
C	8	60	0.3	103	1	T26213	OS	PN	W09320165-A2.
C	9	59.6	0.3	97	1	T26728	PD	14-MAY-1998.	
C	10	59.4	0.3	103	1	T26213	PR	05-NOV-1996; US-030455.	
C	11	58	0.3	103	1	T2027	PT	(WHED ) WILTERMAN INST BIOMEDICAL RES.	
C	12	56.4	0.3	107	1	T20373	PT	Hudson T, Lander ES, Wang D;	
C	13	56.6	0.3	108	1	T26628	PT	WPI, 98-286974/25.	
C	14	54.8	0.2	87	1	T21566	PT	New Isolated nucleic acid segments from the human genome - used for determining polymorphic forms for use in e.g. forensics, paternity testing or phenotypic typing for disease	
C	15	54.8	0.2	93	1	T22572	PS	Claim 1; 310pp; English.	
C	16	55	0.2	95	1	T23131	CC	X10769-X12937 are human DNA fragments which contain biallelic polymorphic markers which have been isolated using the primers represented in X09121-X10268. The base occupying the polymorphic site is indicated by the appropriate IUPAC-IUB ambiguity code. These fragments can be used in methods for determining polymorphic forms in an individual for use in e.g. forensics, paternity testing or for phenotypic typing for diseases such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial spheroctytosis, von Willebrand's disease, polycystic kidney disease, hereditary haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos syndrome, osteogenesis imperfecta, acute intermittent porphyria, autoimmune diseases, inflammation, cancer, diseases of the nervous system, infection by pathogenic microorganisms, and characteristics such as longevity, appearance (e.g. baldness, obesity), strength, speed, endurance, fertility, and susceptibility or receptivity to particular drugs or therapeutic treatments. The isolated polymorphic nucleic acid segments can also be used to produce medicaments for the treatment or prophylaxis of such diseases. Sequence 108 BP; 19 A; 23 C; 28 G; 37 T;	
C	17	54.4	0.2	93	1	T2688	CC	CC	
C	18	54.2	0.2	93	1	T24259	CC	CC	
C	19	54.2	0.2	93	1	T24259	CC	CC	
C	20	54.2	0.2	95	1	T23131	CC	CC	
C	21	54.4	0.2	106	1	Q95210	CC	CC	
C	22	54	0.2	100	1	X12087	CC	CC	
C	23	54	0.2	100	1	X12085	CC	CC	
C	24	53.6	0.2	69	1	Q29016	CC	CC	
C	25	53.6	0.2	110	1	T26288	CC	CC	
C	26	53	0.2	91	1	T25054	OY	14691 TGTATTCGCTAGACCGGGTTACATGTGCGCAGGCTGCTGAACTCTGAC 14750	
C	27	52.8	0.2	100	1	X12086	Db	1 TGCTCTTGTAGATGAGGTGCTTGCTGCTGCACTCTGAC 60	
C	28	53	0.2	109	1	T23895	OY	14751 CTCAAGTGTACACATCCTGGCCCCAA 14782	
C	29	50.8	0.2	70	1	N60331	Db	1 TTCAGGTGATGCCGCTGGCTCCCAA 92	
C	30	50	0.2	69	1	T24175			
C	31	50	0.2	81	1	T24693			
C	32	50	0.2	93	1	T22572			
C	33	50	0.2	105	1	T23942			
C	34	49	0.2	65	1	T24593			

**RESULT 2**  
T2482/c  
ID T24892; standard; cDNA to mRNA; 100 BP.  
AC T2482;  
DT 05-NOV-1996 (first entry)  
DE Human gene signature HUMGS06998.  
KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;  
human; cloning; mapping; non-biased library; diagnosis; detection;  
cell typing; abnormal cell function; ss.  
OS Homo sapiens.  
PN WO9514772A1.  
PD 01-JUN-1995.  
PF 11-NOV-1994; J01916.  
PR 12-NOV-1993; JP-355504.  
PA (MATS/) MATSUBARA K.  
PA (OKUB/) OKUBO K.  
PI Matsubara K, Okubo K;  
DR WPI; 95-206931/27.  
PT Identifying gene signatures in 3'-directed human cDNA library - e.g.  
PT for diagnosis of abnormal cell function, by preparing cDNA that  
PT reflects relative abundance of corresp. mRNA in specific human  
PT tissues.  
PS Claim 1; Page 2182; 2245PP; Japanese.  
CC A single-stranded DNA (or its complementary strand or the corresp.  
double-stranded DNA) which comprises one of the 7837 "GS" sequences  
given in T19001-T26837 and which is able to hybridise to part of  
human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)  
sequences were obtained from 3'-directed cDNA libraries prepared  
from various human tissues; synthesis of cDNA was initiated from the  
3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-  
untranslated sequence is unique to a particular mRNA species, almost  
all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library  
is constructed so as to reflect accurately the relative abundance of  
different mRNAs in the particular tissue from which it was derived.  
The appearance frequency of a given GS in a cDNA library can be  
determined (esp. using primers and probes derived from the GS  
sequences) as a means of diagnosing abnormal cell function or for  
recognising different cell types.  
CC recognising different cell types. Each library  
sequence 108 BP; 18 A; 33 C; 23 G; 28 T;  
SQ Sequence 100 BP; 28 A; 22 C; 25 G; 22 T;

**Query Match**  
Best Local Similarity 0.3%; Score 67.2; DB 1; Length 100;  
Matches 78; Conservative 0; Mismatches 21; Indels 0; Gaps 0;  
Qy 11773 TATTATTTTGAGGGAGGTCTACTCTGTCACCGGCTGGCACTGGCCGATC 11832  
Db 100 TTGTGTTGTTCAACAGAGGAGTCTGTCACCTGGGGAGTGCACGGGGTCAATC 41  
Qy 11833 TCGGCTCACTCCAACCTCCSCTCCGGGTCAACGGAT 11871  
Db 40 TCAGCTNATGCAAATCTGCTCCAGGTCAACGGAT 2  
**RESULT 4**  
T25009  
ID T25009 standard; cDNA to mRNA; 108 BP.  
AC T25009;  
DT 07-NOV-1996 (first entry)  
DE Human gene signature HUMGS07131.  
KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;  
human; cloning; mapping; non-biased library; diagnosis; detection;  
cell typing; abnormal cell function; ss.  
OS Homo sapiens.  
PN WO9514772A1.  
PD 01-JUN-1995.  
PR 11-NOV-1994; J01916.  
PA (MATS/) MATSUBARA K.  
PA (OKUB/) OKUBO K.  
PI Matsubara K, Okubo K;  
DR WPI; 95-206931/27.  
PT Identifying gene signatures in 3'-directed human cDNA library - e.g.  
PT for diagnosis of abnormal cell function, by preparing cDNA that  
PT reflects relative abundance of corresp. mRNA in specific human  
PT tissues.  
PS Claim 1; Page 1748; 2245PP; Japanese.  
CC A single-stranded DNA (or its complementary strand or the corresp.  
double-stranded DNA) which comprises one of the 7837 "GS" sequences  
given in T19001-T26837 and which is able to hybridise to part of  
human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)  
sequences were obtained from 3'-directed cDNA libraries prepared  
from various human tissues; synthesis of cDNA was initiated from the  
3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-  
untranslated sequence is unique to a particular mRNA species, almost  
all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library  
is constructed so as to reflect accurately the relative abundance of  
different mRNAs in the particular tissue from which it was derived.  
The appearance frequency of a given GS in a cDNA library can be  
determined (esp. using primers and probes derived from the GS  
sequences) as a means of diagnosing abnormal cell function or for  
recognising different cell types.



PS Claim 1; Page 1720; 2245pp; Japanese.

CC A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26337 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.

CC Sequence 100 BP; 28 A; 22 C; 25 G; 22 T;

SQ

RESULT 8

Query Match 0.3%; Score 60.8; DB 1; Length 100;  
Best Local Similarity 74%; Pred. No. 0.61; Mismatches 25; Indels 0; Gaps 0; Matches 74; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 5044 ATCGCTTGAACCCAGGGTGAGGTTGCAATGACCAAGATCATGCCACTGCACTCCAG 5103  
Db 2 ATCGCTTGAACCTGGAGGCGAAATTGCATNAGCTGAGATGCCACNTIGCACTCCAG 61

QY 5104 CCTGGCGAGAGACTAAGACGCCGTTCAAAACAAA 5142  
Db 62 CCTGGCTGACAGCAGACTGTGTTGAAACAAACAAA 100

DE Human gene signature HUMGS08452.  
ID T26213 standard; cDNA to mRNA; 103 BP.  
AC T26213; 13-NOV-1996 (first entry)  
DT DE Human gene signature HUMGS08452.  
KW Gene signature; messenger RNA; mRNA; relative abundance; frequency; human; cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal cell function; ss.  
KW Homo sapiens.  
OS WO9514772-A1.  
PD 01-JUN-1995.  
PP 11-NOV-1994; J01916.  
PR 12-NOV-1993; JP-355504.  
(MATSU/.) MATSUBARA K.  
(OKUBO/.) OKUBO K.  
PA Matsubara K, Okubo K;  
PT DR WPI; 95-206931/27.  
PR Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues.  
PS A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26337 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.

CC Sequence 97 BP; 19 A; 27 C; 20 G; 28 T;

PT PS Claim 1; Page 2029; 2245pp; Japanese.

CC A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26337 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.

CC Sequence 103 BP; 33 A; 21 C; 25 G; 23 T;

SQ

RESULT 9

Query Match 0.3%; Score 60; DB 1; Length 103;  
Best Local Similarity 75.0%; Pred. No. 0.79; Mismatches 25; Indels 0; Gaps 0; Matches 75; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 5044 ATCGCTTGAACCCAGGGTGAGGTTGCAATGCCACTGCACTCCAG 5103  
Db 2 ATCACITGAGTCAGAGTAGACTCGCTTCAAAACAAA 101

QY 5104 CCTGGCGAGAGACTAAGACGCCGTTCAAAACAAA 5143  
Db 62 CCTGGCCACKGAGTAGAACATGCTTGTGAA 101

DE Human gene signature HUMGS08452.  
ID T26728 standard; cDNA to mRNA; 97 BP.  
AC T26728; 13-NOV-1996 (first entry)  
DT DE Human gene signature HUMGS08978.  
KW Gene signature; messenger RNA; mRNA; relative abundance; frequency; human; cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal cell function; ss.  
KW Homo sapiens.  
OS WO9514772-A1.  
PD 01-JUN-1995.  
PP 11-NOV-1994; J01916.  
PR 12-NOV-1993; JP-355504.  
(MATSU/.) MATSUBARA K.  
(OKUBO/.) OKUBO K.  
PA Matsubara K, Okubo K;  
PT DR WPI; 95-206931/27.  
PR Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues.  
PS A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26337 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.

CC Sequence 97 BP; 19 A; 27 C; 20 G; 28 T;

PT PS Claim 1; Page 2245pp; Japanese.

CC A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26337 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.

CC Sequence 103 BP; 33 A; 21 C; 25 G; 23 T;

SQ

RESULT 10

Query Match 0.3%; Score 59.6; DB 1; Length 97;  
Best Local Similarity 81.0%; Pred. No. 0.91; Mismatches 16; Indels 0; Gaps 0; Matches 68; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 12004 GATCTACCCACTTGGCCCTCCAAGTGCCTGGGTTACAGGCTGAGCCACTGGCCCG 12063  
Db 1 GATCTACCCACTTGGCCCTCCAAGTGCCTGGGTTACAGGCTGAGCCACTGGCCCG 60

QY 12064 CCCTGCTGTGTTTATTATA 12087  
Db 61 NCTGTAATAGCTTGTGTTTA 84

DE Human gene signature HUMGS08452.

KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;  
 KW human; cloning; mapping; non-biased library; diagnosis; detection;  
 KW cell typing; abnormal cell function; ss.  
 OS Homo sapiens.  
 PN WO9514772-A1.  
 PD 01-JUN-1995.  
 PF 11-NOV-1994; J01916.  
 PR 12-NOV-1993; JP-355504.  
 PA (MATS/.) MATSUBARA K.  
 PA (OKUB/.) OKUBO K.  
 PI Matsubara K., Okubo K.;  
 DR WPI; 95-206931/27.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g.  
 PT for diagnosis of abnormal cell function, by preparing cDNA that  
 PT reflects relative abundance of corresp. mRNA in specific human  
 PT tissues.  
 PS Claim 1; Page 2029; 2245PP; Japanese.  
 CC A single-stranded DNA (or its complementary strand or the correps.  
 CC double stranded DNA) which comprises one of the 7837 "GS" sequences  
 CC given in T9001-T26837 and which is able to hybridise to part of  
 CC human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)  
 CC sequences were obtained from 3'-directed cDNA libraries prepared  
 CC from various human tissues; synthesis of cDNA was initiated from the  
 CC 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-  
 CC untranslated sequence is unique to a particular mRNA species, almost  
 CC all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library  
 CC is constructed so as to reflect accurately the relative abundance of  
 CC different mRNAs in the particular tissue from which it was derived.  
 CC The appearance frequency of a given GS in a cDNA library can be  
 CC determined (esp. using primers and probes derived from the GS  
 CC sequences) as a means of diagnosing abnormal cell function or for  
 CC recognising different cell types.  
 SQ Sequence 103 BP; 33 A; 21 C; 25 G; 23 T;

Query Match  
 Best Local Similarity 0.3%; Score 59.4; DB 1; Length 103;  
 Matches 75; Conservative 0; Mismatches 26; Indels 0; Gaps 0;  
 Oy 10259 TTTTGTGTTAGACAGACTCTACTCGCCGGGTGAGTCAGTGCTCGA 10318  
 Db 102 TTTTGTGTTAGACAGACTCTACTCGCCGGGTGAGTCAGTGCTCGA 43  
 Qy 10319 TCTTAGCTCACTGAACCTTGCCCCGGGTATGCC 10359  
 Db 42 TCATAGCTCAGTGACACCAACTCTGGACTCAGT 2

RESULT 11  
 T20927  
 ID T20927 standard; cDNA to mRNA; 103 BP.  
 AC T20373  
 DT 19-JUL-1996 (first entry)  
 DE Human gene signature HUMGS01525.  
 KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;  
 KW human; cloning; mapping; non-biased library; diagnosis; detection;  
 KW cell typing; abnormal cell function; ss.  
 OS Homo sapiens.  
 PN WO9514772-A1.  
 PD 01-JUN-1995.  
 PR 12-NOV-1993; JP-355504.  
 PA (MATS/.) MATSUBARA K.  
 PA (OKUB/.) OKUBO K.  
 PI Matsubara K., Okubo K.;  
 DR WPI; 95-206931/27.  
 PT Identifying gene signatures in 3'-directed human cDNA library - e.g.  
 PT for diagnosis of abnormal cell function, by preparing cDNA that  
 PT reflects relative abundance of corresp. mRNA in specific human  
 PS Claim 1; Page 623; 2245PP; Japanese.  
 CC A single-stranded DNA (or its complementary strand or the correps.  
 CC double stranded DNA) which comprises one of the 7837 "GS" sequences  
 CC given in T9001-T26837 and which is able to hybridise to part of  
 CC human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)  
 CC sequences were obtained from 3'-directed cDNA libraries prepared  
 CC from various human tissues; synthesis of cDNA was initiated from the  
 CC 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-  
 CC untranslated sequence is unique to a particular mRNA species, almost  
 CC all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library  
 CC is constructed so as to reflect accurately the relative abundance of  
 CC different mRNAs in the particular tissue from which it was derived.  
 CC The appearance frequency of a given GS in a cDNA library can be  
 CC determined (esp. using primers and probes derived from the GS  
 CC sequences) as a means of diagnosing abnormal cell function or for  
 CC recognising different cell types.  
 SQ Sequence 107 BP; 26 A; 29 C; 17 G; 29 T;

Query Match  
 Best Local Similarity 0.3%; Score 56.4; DB 1; length 107;  
 Matches 69; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

CC given in T9001-T26837 and which is able to hybridise to part of  
 CC human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)  
 CC sequences were obtained from 3'-directed cDNA libraries prepared  
 CC from various human tissues; synthesis of cDNA was initiated from the  
 CC 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-  
 CC untranslated sequence is unique to a particular mRNA species, almost  
 CC all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library  
 CC is constructed so as to reflect accurately the relative abundance of  
 CC different mRNAs in the particular tissue from which it was derived.  
 CC The appearance frequency of a given GS in a cDNA library can be  
 CC determined (esp. using primers and probes derived from the GS  
 CC sequences) as a means of diagnosing abnormal cell function or for  
 CC recognising different cell types.  
 SQ Sequence 103 BP; 22 A; 27 C; 21 G; 31 T;

Query Match  
 Best Local Similarity 0.3%; Score 58; DB 1; Length 103;  
 Matches 73; Conservative 0; Mismatches 27; Indels 0; Gaps 0;  
 Oy 18304 GATTCTCTGCCTCAGCTCCAGTCTGCTGGATTACAGCTGCTCACACACCTGG 18363  
 Db 1 GATCTCCACACTCCACCTCCCAGTCTGCTACAGTGCTGGTGTGCGCACCATGRCAG 60  
 Qy 18364 CTAAATTGTTGATTTAGTAGAGACAGGGTTACACGGT 18403  
 Db 61 CTGATTTGTTGATTTAGTAGAGACAGTATTTCTCCATG 100

**QY** 4817 ATTCCAAAGCTCTTAAAGAATATATTGCTGGCCAGGCATGGTGCCTATGCCCTGTA 4876  
**Db** 95 AGTINAGGCCTTAATTGAAAACATTTAGAAGGCCAGNATGGTAGNTCATGCCCTGA 36  
**QY** 4877 ATTCAGCACTTGGGAGCGGAGCAGCAGTC 4911  
**Db** 35 ATTCAGNACTTGGGAGGCTTGGTGCAGGGATC 1

**RESULT 13**

**ID** T26828 standard; cDNA to mRNA; 108 BP.  
**AC** T26828; standard; cDNA to mRNA; 108 BP.  
**DT** 14-NOV-1996 (first entry)  
**DE** Human gene signature. HUMGS09078.  
**KW** Gene signature; messenger RNA; mRNA; relative abundance; frequency; cell typing; abnormal cell function; ss.  
**KW** human; cloning; mapping; non-biased library; diagnosis; detection; Homo sapiens.  
**OS** WO9514772-A1.  
**PD** 01-JUN-1995.  
**PF** 12-NOV-1993; JP-355504.  
**PR** 11-NOV-1994; J01916.  
**PP** 12-NOV-1993; JP-355504.  
**PA** (MATS/) MATSUBARA K.  
**PI** Matsubara K., Okubo K.;  
**DR** WPI; 95-206931/27.  
**PT** Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues.  
**PT** Claim 1; Page 2182; 2245pp; Japanese.  
**CC** A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26837 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA, is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-orientated cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.  
**SQ** Sequence 87 BP; 35 A; 21 C; 16 G; 13 T;

**Query Match** 0.2%; Score 54.8; DB 1; Length 87;  
**Best Local Similarity** 77.4%; Pred. No. 4.4;  
**Matches** 65; Conservative 0; Mismatches 19; Indels 0; Gaps 0;  
**CC** Sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-orientated cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.  
**CC** Sequence 108 BP; 18 A; 33 C; 23 G; 28 T;

**Query Match** 0.3%; Score 56.6; DB 1; Length 108;  
**Best Local Similarity** 84.9%; Pred. No. 2.4;  
**Matches** 62; Conservative 0; Mismatches 11; Indels 0; Gaps 0;  
**CC** Sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-orientated cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.

**RESULT 14**

**ID** T22572 standard; cDNA to mRNA; 93 BP.  
**AC** T22572; 01-OCT-1996 (first entry)  
**DE** Human gene signature HUMGS04188.  
**KW** Gene signature; messenger RNA; mRNA; relative abundance; frequency; cell typing; abnormal cell function; ss.  
**KW** human; cloning; mapping; non-biased library; diagnosis; detection; Homo sapiens.  
**OS** WO9514772-A1.  
**PD** 01-JUN-1995.  
**PF** 11-NOV-1994; J01916.  
**PR** 12-NOV-1993; JP-355504.  
**PA** (MATS/) MATSUBARA K.  
**PI** Matsubara K., Okubo K.;  
**DR** WPI; 95-206931/27.  
**PT** Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues.  
**PT** Claim 1; Page 1159; 2245pp; Japanese.  
**CC** A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26837 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA, is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-orientated cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.

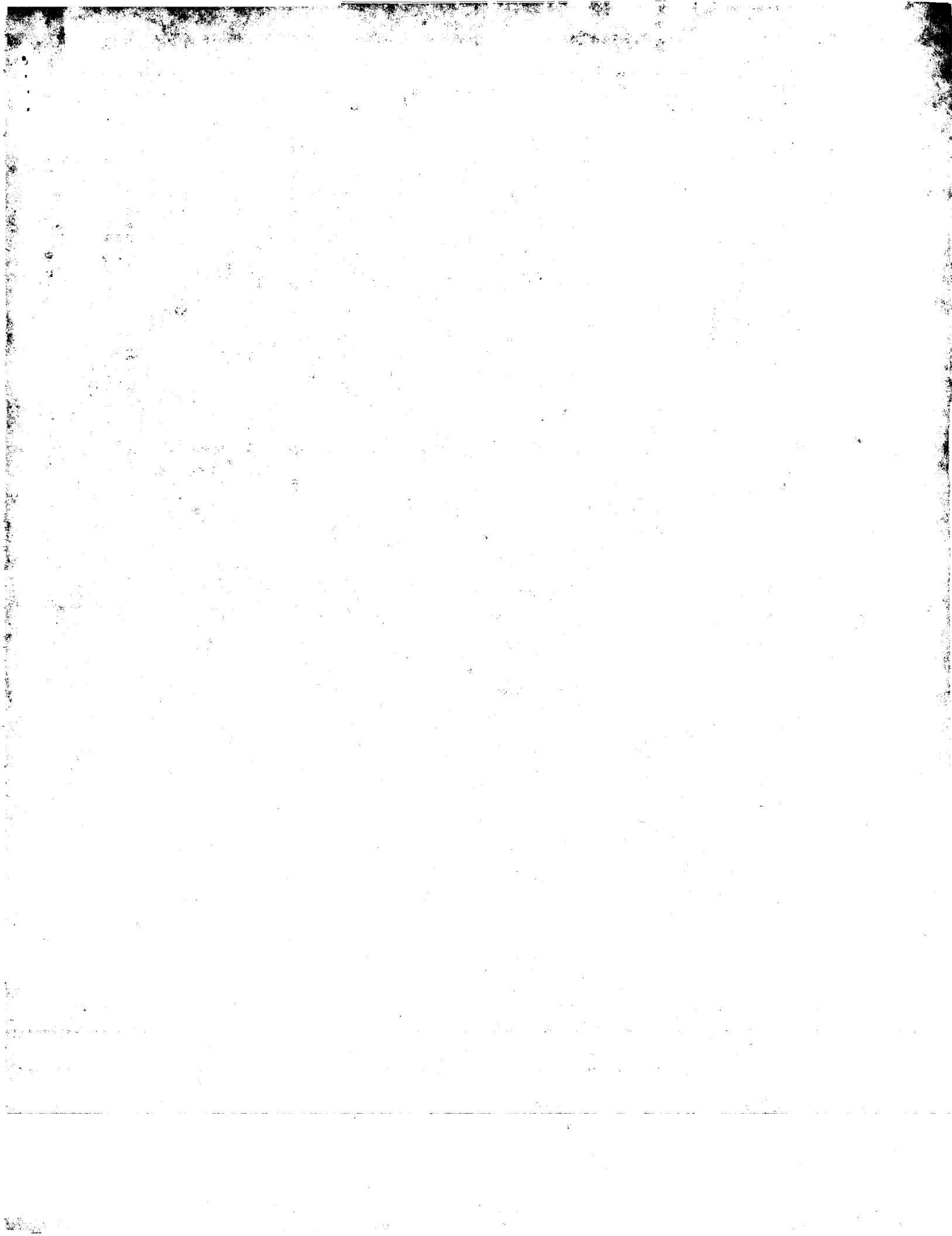
**RESULT 15**

**ID** T22572 standard; cDNA to mRNA; 93 BP.  
**AC** T22572; 01-OCT-1996 (first entry)  
**DE** Human gene signature HUMGS04188.  
**KW** Gene signature; messenger RNA; mRNA; relative abundance; frequency; cell typing; abnormal cell function; ss.  
**KW** human; cloning; mapping; non-biased library; diagnosis; detection; Homo sapiens.  
**OS** WO9514772-A1.  
**PD** 01-JUN-1995.  
**PF** 11-NOV-1994; J01916.  
**PR** 12-NOV-1993; JP-355504.  
**PA** (MATS/) MATSUBARA K.  
**PI** Matsubara K., Okubo K.;  
**DR** WPI; 95-206931/27.  
**PT** Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues.  
**PT** Claim 1; Page 1159; 2245pp; Japanese.  
**CC** A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in T19001-T26837 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA, is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-untranslated sequence is unique to a particular mRNA species, almost all the 3'-orientated cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.

CC from various human tissues; synthesis of cDNA was initiated from the  
CC 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-  
CC untranslated sequence is unique to a particular mRNA species, almost  
CC all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library  
CC is constructed so as to reflect accurately the relative abundance of  
CC different mRNAs in the particular tissue from which it was derived.  
CC The appearance frequency of a given GS in a cDNA library can be  
CC determined (esp. using primers and probes derived from the GS  
CC sequences) as a means of diagnosing abnormal cell function or for  
CC recognising different cell types.  
SQ Sequence 93 BP; 22 A; 23 C; 24 G; 22 T;

Query Match 0.2%; Score 54.8; DB 1; Length 93;  
Best Local Similarity 73.9%; Pred. No. 4.4;  
Matches 68; Conservative 0; Mismatches 24; Indels 0; Gaps 0;  
Db 5044 ATCGCTTGACCCAGGCGGGAGGTGGCATTTGACCAAGATCAGGCCACTGCACCTCAG 5103  
Qy 2 ATCCCCCTGAGCCGAGAGGTTGAGGCTGCGACTATGGTACACACTGCACTCCAG 61  
Qy 5104 CCTGGCCGAGAGAGTAAGACTCCGGTTCAA 5135  
Db 62 CNTTGGTTAATNATGAAAGACCTGTTCACAA 93

Search completed: June 17, 2000, 18:05:14  
Job time: 277625 sec



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GenCore version 4.5

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

8

## SUMMARIES

No.	Score	Match	Length	DB	ID	Description
1	96.4	0.4	106	37	AA703692	Washington University School of Medicine
2	94.8	0.4	109	30	AA243009	4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
3	92.4	0.4	103	38	AA807640	Tel: 314 286 1800
4	92.6	0.4	108	84	B65160	Fax: 314 286 1810
5	92.4	0.4	110	39	AA893366	Email: est@watson.wustl.edu
6	91.4	0.4	109	94	AQ028426	This clone is available royalty-free through LInL; contact the
7	91.0	0.4	108	84	B65160	IMAGE Consortium (info@image.llnl.gov) for further information.
8	89.8	0.4	110	39	AA835205	Seq primer: -28ml3 rev1 ET from Amersham
9	89.8	0.4	110	39	AA244245	High quality sequence stop: 53.
10	88.6	0.4	103	30	AA228795	Location/Qualifiers
11	88.4	0.4	106	105	AQ264176	1. 106
12	87.8	0.4	103	84	B48914	/organism="Homo sapiens"
13	87.8	0.4	107	35	AA565333	/db_xref="Taxon: 9606"
14	86.6	0.4	103	108	AQ53244	/clone="IMAGE:114058"
15	86.8	0.4	103	108	AQ58186	/clone_1ib="Striatogene hnt neuron (#937233)"
16	87.0	0.4	103	108	AQ58425	/dev_stage="hnt neurons"
17	86.8	0.4	106	38	AA812141	/lab_host="SOIR (Kanamycin resistant)"
18	86.8	0.4	106	94	AQ062963	/note="Vector: pBluescript SK-; Site_1: EcoRI; Site_2:
19	86.4	0.4	105	39	AA218889	XhoI; Cloned unidirectionally. Primer: Oligo dR.
20	86.4	0.4	107	39	AA8828124	AQ28124 od71ad7-S
21	86.5	0.4	109	94	AQ028426	AQ28426 CIT-HSP-2
22	86.6	0.4	110	30	AA244245	AQ244245 CIT-HSP-2
23	85.6	0.4	102	30	AA226556	AQ226556 nc07ak4.s
24	85.8	0.4	102	28	AA078003	AA226556 nc19f99.s
25	85.8	0.4	105	105	AQ282107	AA078003 TH12D08 C
26	85.2	0.4	109	22	H11143	AQ282107 RPC11-94
27	84.8	0.4	104	29	AA129957	BASE COUNT 19 a
28	84.8	0.4	104	29	AA129957	29 c 29 g 29 t
29	84.8	0.4	107	33	AA385808	ORIGIN
30	85.0	0.4	109	105	AQ265749	/
31	84.6	0.4	107	103	AQ240182	Query Match
32	83.8	0.4	108	94	AQ011433	0.48; score 96.4; DB 37; Length 106;
33	83.4	0.4	101	39	AA835205	Best Local Similarity 94.3%; Pred. No. 0.066; Mismatches 6; Indels 0; Gaps 0;
34	83.4	0.4	102	94	AQ004934	Matches 100; Conservative
35	83.6	0.4	109	24	N25299	AA38808 EST99f95
36	83.4	0.4	109	24	B17434	AQ265749 CIT-B-E1-
37	83.0	0.4	101	33	AA381369	AQ240182 CIT-HSP-2
38	83.2	0.4	104	108	AA385205	AQ011433 CIT-HSP-2
39	83.2	0.4	107	24	N23686	AQ835205 ak64hb1.S
40	83.4	0.4	110	94	AQ003188	AQ004934 CIT-HSP-2
41	82.6	0.4	106	108	AQ544957	N25299 YW52C09.S1
42	82.8	0.4	110	29	AA177157	B17434 3'5K2_TWB C
43	82.4	0.4	101	94	AQ076649	AA381369 EST9442
44	82.0	0.4	98	24	H67549	AQ544583 CIT-B-E1-
45	82.2	0.4	104	105	AQ268072	N23686 YW46a02.s1
						RESULT 2
						AA243009
						AA243009 109 bp mRNA EST
						AA243009 109 bp mRNA EST
						DEFINITION zr25h02.s1 Stratagene NT2 neuronal precursor 937230 Homo sapiens
						Db 61 NGATCTGCCGCCCTAGCCCTCAAGTGCCTGGATTACAGGTCG 10536
						REFERENCE CDNA clone IMAGE:664467 3' similar to contains Alu repetitive element; mRNA sequence.
						ACCESSION AA243009
						VERSION AA243009.1
						KEYWORDS EST.
						SOURCE
						ORGANISM Homo sapiens
						Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
						REFERENCE
						1 (bases 1 to 109)
						REFERENCE
						Hillier,L., Allen,M., Bowles,L., Dubuque,T., Geisel,G., Jost,S., Krieger,D., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin,J., Moore,B., Schellenberg,K., Steptoe,M., Tan,F., Theising,B., White,Y., Wylie,T., Waterston,R. and Wilson,R.
						TITLE WashU-NCI human EST Project
						JOURNAL Unpublished (1997)
						COMMENT On Dec 3, 1996 this sequence version replaced gi:1126869.
						Contact: Wilson RR
						Washington University School of Medicine
						4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
						Tel: 314 286 1800
						Fax: 314 286 1810
						Fax: 314 286 1800
						Email: est@watson.wustl.edu
						This clone is available royalty-free through LInL; contact the
						IMAGE Consortium (info@image.llnl.gov) for further information.
						Insert Length: 1127 Std Error: 0.00
						Seq primer: -4ml3 fwd. ET from Amersham
						High quality sequence stop: 102.
						COMMENT On Sep 12, 1996 this sequence version replaced gi:1397630.

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/organism="Homo sapiens"		/note="vector: pTT7ZB-Pac (Pharmacia) with a modified polyA-linker; 1st strand cDNA was prepared from 3 pooled germ cell tumors, and was then printed with Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pTT7ZB vector. Library is not normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo."	
/der-stage="NTera-2 neuroepithelial cells"			
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/clone="IMAGE:664467"			
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/lab-host="SOLR (kanamycin resistant)"			
/note="Organ: brain; Vector: pBluescript SK-; Site_1: EcoRI; Site_2: XbaI; Cloned unidirectionally. Primer: Oligo dT. Uninduced, exponentially growing neuroepithelial cells (NTera-2/c1.01). Average insert size: 1.0 kb; Uni-ZAP XR Vector; -5' adaptor sequence: 5' CTCGAGTTTTTTTTTTT 3'"			
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DEFINITION		103 bp mRNA	
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nx0b05.s1		NCL-CGAP-GC3	
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AA807640.1		GI:2877108	
COMMENT			
JOURNAL			
REFERENCE			
AUTHORS			
TITLE			
Tumor Gene Index			
Unpublished (1997)			
On Jan 19, 1998 this sequence version replaced gi:2151346.			
Contact: Robert Strausberg, Ph.D.			
Tel: (301) 496-1550			
Email: Robert_Strausberg@nih.gov			
Tissue-Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael Emmert-Buck, M.D., Ph.D.			
CDNA Library Preparation: M. Bento Soares, Ph.D.			
CDNA Library Arrayed by: Greg Lennon, Ph.D.			
DNA Sequencing by: Washington University Genome Sequencing Center			
Clone distribution: NCI-CGAP clone distribution information can be found through the T.M.A.G.E. Consortium/LNLM at: www-bio.llnl.gov/bbprp/image.html			
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Matches		0	
Query Match		0.4%	
Best Local Similar			

Query Match 0.4%; Score 92.6; DB 84; Length 108;  
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 Matches 98; Conservative 0; Mismatches 9; Gaps 0;

**RESULT 5**

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**DEFINITION** IMAGE:466067 3' similar to contains Alu repetitive element; mRNA  
**ACCESSION** AAB97366  
**VERSION** AAB97366.1 GI:3033986  
**KEYWORDS** EST.  
**SOURCE** human.  
**ORGANISM** Homo sapiens  
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 Eutheria; Primates; Catarrhini; Hominidae; Homo.  
**REFERENCE** 1 (bases 1 to 109)  
**AUTHORS** Adams,M.D., Rounseley,S.D., Zhao,S., Field,C.E., Bass,S., Linher,K.,  
 Simon,M. and Venter,J.C.  
**TITLE** Use of a random BAC End sequence Database for Sequence-Ready Map  
**JOURNAL** Building (1998)  
**COMMENT** Unpublished (1998)  
**CONTACT** Robert Strausberg, Ph.D.  
 Tel.: (301) 496-1550  
**Email:** Robert\_Strausberg@nih.gov  
**FEATURES**  
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- /clone.lib="Soares\_NFL\_T\_GBC\_S1"
- /lab.host="DH10B"
- /note="Organ: pooled; vector: pIT73D-Pac (Pharmacia) with a modified polylinker; Site\_1: Not I; Site\_2: Eco RI; Equal amounts of plasmid DNA from three normalized libraries (fetal lung NIH3T3, testis NHT, and B-cell NCI:CGAP\_GCB1) were mixed, and ss circles were made in vitro. Following HRP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of I.M.A.G.E. clones 297480..302087, 682632..681739, 72608..728711, and 729056..731399. Subtraction by Bento Soares and M. Fatima Bonaldo."

**BASE COUNT** 22 a 27 c 29 g 32 t

**ORIGIN**

Query Match 0.4%; Score 92.4; DB 39; Length 110;  
 Best Local Similarity 90.0%; Pred. No. 0.18; Indels 0;  
 Matches 99; Conservative 0; Mismatches 11; Gaps 0;

**RESULT 6**

AQ028426 AQ028426 109 bp DNA CTR-HSP-2313G15.TF CTR-HSP Homo sapiens genomic clone 2313G15,  
**LOCUS** CTR-HSP-2313G15.TF CTR-HSP Homo sapiens genomic survey sequence.  
**DEFINITION** genomic survey sequence.

**ACCESSION** B65160  
**VERSION** B65160..1 GI:2639138  
**KEYWORDS** GSS.  
**SOURCE** human.  
**ORGANISM** Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominidae; Homo.

**REFERENCE** 1 (bases 1 to 109)  
**AUTHORS** Adams,M.D., Rounseley,S.D., Zhao,S., Field,C.E., Bass,S., Linher,K.,  
 Simon,M. and Venter,J.C.  
**TITLE** Use of a random BAC End sequence Database for Sequence-Ready Map  
**JOURNAL** Building (1998)  
**COMMENT** Unpublished (1998)  
**CONTACT** Mark Adams  
**FEATURES**  
**source**

- 1. 109
- /organism="Homo sapiens"
- /db\_xref="taxon:9606"
- /clone="2313G15"
- /clone.lib="CTR-HSP"
- /sex="Male"
- /cell\_type="Sperm"
- /note="Vector: pBelBAC1; site\_1: HindIII; site\_2: HindIII"

**BASE COUNT** 19 a 36 c 25 g 29 t

**ORIGIN**

Query Match 0.4%; Score 91.4; DB 94; Length 109;  
 Best Local Similarity 89.9%; Pred. No. 0.23; Indels 0;  
 Matches 98; Conservative 0; Mismatches 11; Gaps 0;

**RESULT 7**

B65160/c B65160 108 bp DNA CTR-HSP-2017G2.TRF CTR-HSP Homo sapiens genomic clone 2017G2,  
**LOCUS** CTR-HSP-2017G2.TRF CTR-HSP Homo sapiens genomic clone 2017G2,  
**DEFINITION** genomic survey sequence.

**ACCESSION** B65160  
**VERSION** B65160..1 GI:2639138  
**KEYWORDS** GSS.  
**SOURCE** human.  
**ORGANISM** Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominidae; Homo.

Query Match 0.4%; Score 92.4; DB 39; Length 110;  
 Best Local Similarity 90.0%; Pred. No. 0.18; Indels 0;  
 Matches 99; Conservative 0; Mismatches 11; Gaps 0;

**RESULT 8**

OY 10427 GTATTTTAGTAGAGACGGACTCTGTCACCGTGTCAACAGATGTCATCTGGAC 10486  
**LOCUS** 1 GTATTTTAGAGATGGGTTCTACCGTGTCAACAGATGTCATCTGGAC 60

**ACCESSION** B65160  
**VERSION** B65160..1 GI:2639138  
**KEYWORDS** GSS.  
**SOURCE** human.  
**ORGANISM** Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominidae; Homo.

Query Match 0.4%; Score 92.4; DB 39; Length 110;  
 Best Local Similarity 90.0%; Pred. No. 0.18; Indels 0;  
 Matches 99; Conservative 0; Mismatches 11; Gaps 0;

**RESULT 9**

OY 10487 CTCGGATGCCCTGACGCCAACAGTCGGATTACAGGTGT 10487  
**LOCUS** 1 CTGGATGCCCTGACGCCAACAGTCGGATTACAGGTGT 10536

REFERENCE	1 (bases 1 to 108)
AUTHORS	Adams,M.D., Rounsley,S.D., Field,C.E., Bass,S., Linher,K., Golden,K., Berry,K., Granger,D., Suh,E., Wible,C., Shizuya,H., Simon,M. and Venter,J.C.
TITLE	use of a random BAC End Sequence Database for sequence-Ready Map Building
JOURNAL	Unpublished (1997)
COMMENT	Other_GSS: CTR-HSP-2017G2.TFB Contact: Mark Adams Department of Eukaryotic Genomics The Institute for Genomic Research 9712 Medical Center Dr., Rockville, MD 20850, USA Tel: 301 838 0200 Fax: 301 838 0208 Email: mdadams@igf.org Clones are available from Research Genetics (info@resgen.com). BAC Seq primer: M13 Reverse Class: BAC ends.
FEATURES	Location/Qualifiers source I. 108 /organism="Homo sapiens" <db_xref="GDB:704360" <db_xref="taxon:9606" <clone="IMAGE:1412089" <clone_id="CIT-HSP" <sex="Female" <dev_stage="adult, 34 years" <lab_host="DH10B" </note="Org: Pancreas; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: EcoRI; Site_2: NotI; 1st strand cDNA was primed with a Not I - oligo(dT) primer 5', TGTACGAATCTGAGTGGAGCGCCGCCCTTTTTTTTTTTTT >3'; double-stranded cDNA was ligated to Eco RI adaptors [AATTGGATTCCT], digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library constructed by Bob Barstead."
BASE COUNT	26 a 27 c 34 g 21 t
ORIGIN	
Query Match	Best Local Similarity 90.7%; Score 91; DB 84; Length 108; Matches 97; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
BASE COUNT	14 a 36 c 27 g 24 t
ORIGIN	
Query Match	Best Local Similarity 93.1%; Score 91; DB 39; Length 101; Matches 94; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
BASE COUNT	11783 11783 11783 11783
ORIGIN	
Query Match	Best Local Similarity 93.1%; Score 91; DB 39; Length 101; Matches 94; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
BASE COUNT	11783 11783 11783 11783
ORIGIN	
RESULT	8
LOCUS	AA835205
DEFINITION	AK6401.s1 Barstead pancreas HPLRBL Homo sapiens EST clone IMAGE:1412689
ACCESION	QY 18310
VERSION	Db 47
KEYWORDS	CCTGCCTCAGCCTCTGAGTAGCTGGATACAGGGCATGCCACCA 1
SOURCE	
ORGANISM	Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Mammalia: Eutheria: Primates: Catarrhini; Hominidae; Homo.
REFERENCE	1 (bases 1 to 10)
AUTHORS	Hillier,L., Allen,M., Bowles,L., Dubuque,T., Geisel,G., Jost,S., Kriman,D., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin,J., Moore,B., Schellenberg,R., Steptoe,M., Tan,F., Theising,B., White,Y., Wylie,T., Waterston,R. and Wilson,R.
TITLE	WASH-NCI human EST Project
COMMENT	Unpublished (1997) On Nov 29, 1993 this sequence version replaced gi:636191. Contact: Wilson RK Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800
FEATURES	Seq primer: -41m13 fwd. BT from Amersham High quality sequence stop: 90. Location/Qualifiers
REFERENCE	Fax: 314 286 1810 Email: est@wanson.wustl.edu
AUTHORS	This clone is available royalty-free through LInN ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
COMMENT	Seq primer: -40m13 fwd. ET from Amersham. Location/Qualifiers
FEATURES	source I. 101 /organism="Homo sapiens" <db_xref="taxon:9606" <clone="IMAGE:1412089" <clone_id="Barstead pancreas HPLRBL" <sex="Female" <dev_stage="adult, 34 years" <lab_host="DH10B" </note="Org: Pancreas; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: EcoRI; Site_2: NotI; 1st strand cDNA was primed with a Not I - oligo(dT) primer 5', TGTACGAATCTGAGTGGAGCGCCGCCCTTTTTTTTTTT >3'; double-stranded cDNA was ligated to Eco RI adaptors [AATTGGATTCCT], digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library constructed by Bob Barstead."
BASE COUNT	11783 11783 11783 11783
ORIGIN	
Query Match	Best Local Similarity 93.1%; Score 89.8; DB 39; Length 101; Matches 94; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
BASE COUNT	AA244245
ORIGIN	
Query Match	Best Local Similarity 93.1%; Score 89.8; DB 39; Length 101; Matches 94; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
BASE COUNT	AA244245
ORIGIN	
Query Match	Best Local Similarity 93.1%; Score 89.8; DB 39; Length 101; Matches 94; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
BASE COUNT	AA244245
ORIGIN	
RESULT	9
LOCUS	AA244245
DEFINITION	AA244245 110 bp mRNA EST nc070404.s1 NCI CGAP_Prl Homo sapiens cDNA clone IMAGE:1007406
ACCESION	Db 1
VERSION	61 GCAAGCHCCGCTCCGGGTCACGCCATTCTCTGCCTCA 101
KEYWORDS	nc070404.s1 NCI CGAP_Prl Homo sapiens cDNA clone IMAGE:1007406
SOURCE	
ORGANISM	
REFERENCE	
AUTHORS	
TITLE	
COMMENT	
FEATURES	
REFERENCE	
AUTHORS	
TITLE	
COMMENT	
FEATURES	

source  
 1. .110  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:1007406"  
 /clone\_libr="NCI\_CGAP\_Pri"  
 /sex="Male"  
 /dev\_stage=".5 years old"  
 /lab\_host="DH10B"  
 /note="Vector: PAMP10; Site 1: NotI; Site 2: EcoRI; 1st strand cDNA was primed with oligo(dT)17 on 50 ng of DNA-treated, total cellular RNA obtained from 5,000-10,000 microdissected, histologically normal prostate epithelial cells. Double-stranded cDNA was ligated to EcoRI adaptors, 5 cycles of PCR applied to the cDNA with an adaptor-specific primer, and the resulting PCR product subcloned into PAMP10 by the UDG-cloning method (Life Technologies). Average insert size is 600 bp. NOTE: Not directionally cloned. This library was constructed by David Krizman."  
 BASE COUNT 17 a  
 ORIGIN 26 c  
 28 g  
 38 t  
 1 others

Query Match 0.4%; Score 89.8; DB 30; Length 110;  
 Best Local Similarity 88.2%; Conservative 0; Mismatches 97; Indels 0; Gaps 0;  
 Matches 13;

Qy 17724 TTTTTTTT"AGAGGGAGTCGTCCTACCAAGGGTGACTGGCACAACT 17783  
 Db 1 TTTTTTTTGAAGATGGAGCTGTGAGCTGGCAGGGTGGACTGGCAGANCT 60

Qy 17784 CGGCCTACTGCAACCTCCGCTCCGGGTCAGCTATCTCCGCCCTCA 17833  
 Db 61 TGGCTCACTGCAACCTCTGCCTCCGGGTCAGAGAT"CTTCGCGCTCA 110

RESULT 10  
 AA228795 AA228795 103 bp mRNA EST 20-AUG-1997  
 LOCUS nc14e07.s1 NCI\_CGAP\_Pri Homo sapiens cDNA clone IMAGE:1008132  
 DEFINITION similiar to contains Alu repetitive element; contains element MER28  
 KEYWORDS repetitive element ; mRNA sequence.

ACCESSION AA228795  
 VERSION AA228795.1  
 SOURCE GI:1851455

ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Cattarrhini; Hominidae; Homo.  
 1 (bases 1 to 103)  
 NT-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

REFERENCE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 TITLE Tumor Gene Index  
 JOURNAL Unpublished (1997)  
 COMMENT On Sep 12, 1998 this sequence version replaced gi:1394473.  
 Contact: Robert Strausberg, Ph.D.  
 Tel: (301) 496-1550  
 Email: Robert\_Strausberg@nih.gov  
 Tissue Procurement: W. Marston Linehan, M.D., Rodrigo Chuaqui,  
 M.D., Michael Emmert-Buck, M.D., Ph.D.  
 DNA Library Preparation: David B. Krizman, Ph.D.  
 DNA Library Arrayed by: Genome Systems Inc., Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCICGAP clone distribution information can be found through the T.M.A.G.E. Consortium/LINL at:  
[www-bio.llnl.gov/bbrp/image.html](http://bio.llnl.gov/bbrp/image/)

Seq Primer: -41m13 fwd ET from Amersham  
 High quality sequence stop: 81.  
 FEATURES  
 source  
 1. Location/Qualifiers  
 1. 103  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="2509A2"  
 /clone\_libr="CITB1-E1"  
 /sex="male"  
 /cell\_type="sperm"

Query Match 0.4%; Score 88.6; DB 30; Length 103;  
 Best Local Similarity 91.3%; Conservative 0; Mismatches 94; Indels 0; Gaps 0;  
 Matches 9;

Qy 1519 TTTTTTTTGTGAGCGTGTGTCACUTTCCCCAGCCGACTGCACTAGGCGCAT 1578  
 Db 1 TTTTTTTTGTGAGATGGTGTCACTGTCGCCAGCTGAGTCGACTAGGCCAT 60

Qy 1579 CTCGCTCACTGCAAGCTCGGCTCCGGGTCAGGCCATT 1621  
 Db 61 CTTGGCTCACTGCAAGCTCGGCTCCGGGTCAGGCCATT 103

RESULT 11  
 AQ264176/c AQ264176 106 bp DNA CITB1-E1-2509A2.TR  
 DEFINITION genomic survey sequence.  
 ACCESSION AQ264176  
 VERSION 1  
 KEYWORDS GSS.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Cattarrhini; Hominidae; Homo.  
 1 (bases 1 to 106)  
 Adams,M.D., Rounsley,S.D., Zhao,S., Bass,S., Linher,K., Golden,K.,  
 Berry,J., Granger,D., Suh,E., Wible,C., Shizuya,H., Simon,M. and  
 Venter,J.C.  
 Use of a random human BAC End Sequence Database for Sequence-Ready  
 Map Building  
 Unpublished (1998)  
 Other\_GSSS: CITB1-E1-2509A2.TR  
 COMMENT Contact: Mark Adams  
 Department of Eukaryotic Genomics  
 The Institute for Genomic Research  
 9112 Medical Center Dr., Rockville, MD 20850, USA  
 Tel: 301 838 0200  
 Email: madams@igr.org  
 Clones are available from Research Genetics ([info@resgen.com](http://resgen.com)). BAC end search page:  
[http://www.tigr.org/tgb/hungen/bac\\_end\\_search/bac\\_end\\_search.html](http://www.tigr.org/tgb/hungen/bac_end_search/bac_end_search.html).  
 Seq primer: M13-21  
 Class: BAC ends.  
 FEATURES  
 source  
 1. Location/Qualifiers  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="2509A2"  
 /clone\_libr="CITB1-E1"  
 /sex="male"  
 /cell\_type="sperm"

Query Match 0.4%; Score 88.4; DB 105; Length 106;  
 Best Local Similarity 89.6%; Pred. No. 0.5%;  
 Matches 95; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 10446 GGTTTCACCATGTTAGCCAGGATGGTCTGATCCTGACTCTGTAGTCGCCACCTG 10505  
 Db 106 GGTTTCACCATGTTAGCCAGGACGGCTCTGATCCTGACTCTGTAGTCGCCACCTG 47

Qy 10506 AGCCCTCCAAAGTAGTGTTGGATTACAGGTGAGCCACCGCCGG 10551  
 Db 46 GGTCMCCCAAAGTAGTGTTGGATTACAGGTGAGACTCTGCCCCG 1

**RESULT 12**

REFERENCE B48914/c  
 LOCUS B48914 103 bp DNA  
 DEFINITION RP011-4A12.TP RPT-11 Homo sapiens genomic clone RPCI-11-4A12,  
 ACCESSION B48914  
 VERSION B48914.1 GI:2601151  
 KEYWORDS GSS,  
 SOURCE human.  
 ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 103)

AUTHORS Adams,M.D., Rounsley,S.D., Field,C.E., Bass,S., Linher,K.,  
 Golden,K., Barry,K., Granger,D., Sun,F., Wible,C., de Jong,P. and  
 Venter,J.C.

TITLE Use of BAC End Sequences for Sequence-Ready Map Building  
 (Unpublished (1997))

COMMENT Contact: Mark Adams  
 Department of Eukaryotic Genomics  
 The Institute for Genome Research  
 9712 Medical Center Dr., Rockville, MD 20850, USA  
 Tel: 301 838 0200  
 Fax: 301 838 0208  
 Email: madas@tigr.org

Copies are derived from the human BAC library RPCI-11. FOR BAC  
 library availability, Please contact Pieter de Jong  
 (pieterdejong.med.buffalo.edu). Clones may be purchased from  
 BACPAC Resources (<http://bcpac.med.buffalo.edu/ordering>) or from  
 Research Genetics ([info@reagen.com](mailto:info@reagen.com)). BAC end search Page:  
[http://www.tigr.org/tgb/hungen/bac\\_end\\_search.html](http://www.tigr.org/tgb/hungen/bac_end_search.html)  
 Seq primer: SP6  
 Class: BAC ends.  
 Location/Qualifiers

FEATURES source

1. .103  
 /organism="Homo sapiens"  
 /db\_xref="GDB:7501163"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:1016157"  
 /clone\_lib="NCI-CGAP\_GC2"  
 /tissue\_type="germ cell tumor"  
 /lab\_host="SOLR (kanamycin resistant)"  
 /note="Vector: Bluescript SK-; Site\_1: EcoRI; Site\_2:  
 XbaI; Cloned unidirectionally; Primer: 0190 dT-Bulk  
 germ cell tumor. 5' adaptor sequence: 5', GAATTCGGACGAG 3'  
 3' adaptor sequence: 5', CTCGAATTCGGATTC 3'  
 Average insert size: 1.2 kb."  
 2. .25 t

**RESULT 13**

REFERENCE AA565533  
 LOCUS AA565533 107 bp mRNA  
 DEFINITION nkb2b1.s1 NCI-CGAP\_GC2 Homo sapiens cDNA clone IMAGE:1016157 3'  
 ACCESSION AA565533  
 VERSION AA565533.1 GI:2337172  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 107)

COMMENT On Sep 12, 1996 this sequence version replaced gi:1393355.  
 Contact: Robert Straussberg, Ph.D.  
 Tel: (301) 496-1550  
 Email: Robert.Straussberg@nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.  
 CDNA Library Preparation: Stratagene, Inc., David B. Krizman,  
 Ph.D.  
 CDNA Library Arraying: Greg Lennon, Ph.D.  
 DNA Sequencing By: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the L.M.A.G.E. Consortium/LUMI at:  
[www.bio1.lnl.gov/lbrcp/image/limage.html](http://www.bio1.lnl.gov/lbrcp/image/limage.html)

Insert length: 1661. Std Error: 0.00  
 Seq primer: -40ml3 fwd. ET from Amersham  
 High quality sequence stop: 87.  
 Location/Qualifiers

1. .107  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:1016157"  
 /clone\_lib="NCI-CGAP\_GC2"  
 /tissue\_type="germ cell tumor"  
 /lab\_host="SOLR (kanamycin resistant)"  
 /note="Vector: Bluescript SK-; Site\_1: EcoRI; Site\_2:  
 XbaI; Cloned unidirectionally; Primer: 0190 dT-Bulk  
 germ cell tumor. 5' adaptor sequence: 5', GAATTCGGACGAG 3'  
 3' adaptor sequence: 5', CTCGAATTCGGATTC 3'  
 Average insert size: 1.2 kb."  
 2. .25 t

**RESULT 14**

REFERENCE AQ535244/c  
 LOCUS AQ535244 40  
 DEFINITION TTTTAGAGACGGGTTACCGTTAGCCAGATGGTCACTCTGACCTCG 40  
 ACCESSION Qy 10491 TGATCGCCACCTGAGCTCCAAAGTGCTGGATTAC 10529  
 VERSION 1  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens

Query Match 0.4%; Score 87.8; DB 84; Length 107;  
 Best Local Similarity 92.9%; Pred. No. 0.59;  
 Matches 92; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 11812 CTGGAGTCAGTGGCGCGACTCGCTCACTGCACCTCGCCRCGSGCTCACTGAT 11871  
 Db 1 CTGGAGTCAGTGGCGCTCACTGCACCTCGCCRCGSGCTCACTGAT 60

Qy 11872 TCTCTGCCCAGACTCCCGAGTAGCTGGATTACGTGATCACCA 11918  
 Db 61 TCTCTGCCCAGCTCTGAGTAGCTGGATTACGACACACCA 107

**RESULT 14**

REFERENCE AQ535244/c  
 LOCUS AQ535244 40  
 DEFINITION TTTTAGAGACGGGTTACCGTTAGCCAGATGGTCACTCTGACCTCG 40  
 ACCESSION Qy 10431 TTTCAGTAGAGACGGGTTACCATGTTAGCCAGATGGTCACTCTGACCTCG 10490  
 VERSION 1  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens

Query Match 0.4%; Score 87.8; DB 84; Length 107;  
 Best Local Similarity 92.9%; Pred. No. 0.59;  
 Matches 92; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

**LOCUS** A0535244 103 bp **DNA** **GSS** 18-MAY-1999  
**DEFINITION** RPCI-11-317H22.TV RPCI-11 Homo sapiens genomic clone  
**ACCESSION** A0535244  
**VERSION** A0535244.1 **GI:**4846934  
**KEYWORDS** GSS;  
**SOURCE** human.  
**ORGANISM** Homo sapiens  
**Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;**  
**JOURNAL** Eutheria; Primates; Catarrhini; Homidae; Homo.  
**AUTHORS** 1. (bases 1 to 103)  
**TITLE** Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready  
**COMMENT** Map Building  
**Unpublished (1997)**  
**CONTACT** Shaying Zhao, William Nierman, Mark Adams  
**Department of Eukaryotic Genomics**  
**The Institute for Genomic Research**  
**9712 Medical Center Dr., Rockville, MD 20850**  
**Tel:** 301 838 0200  
**Fax:** 301 838 0208  
**Email:** hba@tigr.org  
**Class:** BAC ends.

**FEATURES**

**source**

1. .103  
**/organism="Homo sapiens"**  
**/db\_xref="GDB:7621533"**  
**/db\_xref="taxon:9606"**  
**/clone="RPCI-11-317H22"**  
**/clone\_id="RPCI-11"**  
**/sex="Male"**  
**/cell\_type="Lymphocytes"**  
**/note="Vector: PBACE3.6; site\_1: ECORI; site\_2: ECORI;**  
**RPCI11 Human Male BAC Library"**

**BASE COUNT** 31 a 27 c 27 g 18 t

**ORIGIN**

Query Match 0.4%; Score 86.6; DB 108; Length 103;  
Best Local Similarity 91.1%; Pred. No. 0.8; Matches 92; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Db 103 TTTTGTATTCTGGTAGAGACGGGTTTACCATGTTGGCCAGGCTGGTCTCGACTCC 14746

Qy 14747 TGACCTCAAGGATCACAMTCCTGGCCCTCCAAAGTGC 14787

Db 43 TGACCTCAAGTGTCTGCCGCTGGCTCCAGAAGTGC 3

**RESULT** 15

A0582186 A0582186 103 bp **DNA** **GSS** 07-JUN-1999  
**DEFINITION** RPCI-11-451A15.TV RPCI-11 Homo sapiens genomic clone  
**ACCESSION** A0582186  
**VERSION** A0582186.1 **GI:**5009296  
**KEYWORDS** GSS;  
**SOURCE** human.  
**ORGANISM** Homo sapiens  
**Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;**  
**REFERENCE** 1. (bases 1 to 103)  
**AUTHORS** Zhao, S., Adams, M.D., Nierman, W., Malek, J., de Jong, P. and

**FEATURES**

**source**

1. .103  
**/organism="Homo sapiens"**  
**/db\_xref="GDB:762814"**  
**/db\_xref="taxon:9606"**  
**/clone="RPCI-11-451A15"**  
**/clone\_id="RPCI-11"**  
**/sex="Male"**  
**/cell\_type="Lymphocytes"**  
**/note="Vector: PBACE3.6; site\_1: ECORI; site\_2: ECORI;**  
**RPCI11 Human Male BAC Library"**

**BASE COUNT** 19 a 36 c 25 g 22 t

**ORIGIN**

Query Match 0.4%; Score 86.8; DB 108; Length 103;  
Best Local Similarity 91.9%; Pred. No. 0.76; Matches 91; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Db 1 GAGAGTCAGGCAATCAGGGCTAACCTCCCTCCGGGTCAGCTATTC 17823

Qy 17764 CGACGTGCAAGTGGCTCACGCCAACCTCCCTCCGGGTCAGCTATTC 17824

Db 1 GGAGTGCTGAGCAATCTGGCTAACCTCCCTCCAGATTCAGCGATT 60

Qy 17824 TCTGGCTCAGCTCCAAAGTGCAGCTGGGACTCACGGCG 17862

Db 61 TCCCTGCTCAGCTCCGGACTAGCTGGGACTACAGACGC 99

Search completed: June 17, 2000, 13:46:22  
Job time: 263349 sec

Venter, J.C.  
Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready  
Map Building  
Unpublished (1997)  
On Feb 19, 1999 this sequence version replaced gi:4146076.  
Other GSS: RPCI-11-451A15.TV  
Contact: Shaying Zhao, William Nierman, Mark Adams  
Department of Eukaryotic Genomics  
The Institute for Genomic Research  
9712 Medical Center Dr., Rockville, MD 20850  
Tel: 301 838 0200  
Fax: 301 838 0208  
Email: hba@tigr.org  
Clones are derived from the human BAC library RPCI-11. For BAC library availability, please contact Pieter de Jong (pieter@dejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (<http://bacpac.med.buffalo.edu/Ordering>) or from Research Genet cs (<http://info@reagen.com>). BAC end search page: [http://www.tigr.org/tgb/hungen/bac\\_end\\_search.html](http://www.tigr.org/tgb/hungen/bac_end_search.html).  
Seq primer: SP6  
Class: BAC ends.

**FEATURES**

**source**

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**/db\_xref="taxon:9606"**  
**/clone="RPCI-11-451A15"**  
**/clone\_id="RPCI-11"**  
**/sex="Male"**  
**/cell\_type="Lymphocytes"**  
**/note="Vector: PBACE3.6; site\_1: ECORI; site\_2: ECORI;**  
**RPCI11 Human Male BAC Library"**

**BASE COUNT** 19 a 36 c 25 g 22 t

**ORIGIN**

Query Match 0.4%; Score 86.8; DB 108; Length 103;  
Best Local Similarity 91.9%; Pred. No. 0.76; Matches 91; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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Qy 17764 CGACGTGCAAGTGGCTCACGCCAACCTCCCTCCGGGTCAGCTATTC 17824

Db 1 GGAGTGCTGAGCAATCTGGCTAACCTCCCTCCAGATTCAGCGATT 60

Qy 17824 TCTGGCTCAGCTCCAAAGTGCAGCTGGGACTCACGGCG 17862

Db 61 TCCCTGCTCAGCTCCGGACTAGCTGGGACTACAGACGC 99

Wed Jun 21 14:43:51 2000

us-08-852-495c-1\_copy\_213000\_235033.rst



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OM nucleic - nucleic search, using sw model

Run on: June 17, 2000, 10:50:33 ; Search time 286.25 Seconds (without alignments)

Total number of hits satisfying chosen parameters: 374504

Minimum DB seq length: 10

Maximum DB seq length: 110

Post-processing: Minimum Match 0%

Listing first 45 summaries

Result No.	Score	Query Match Length	DB ID	Description
1	76.2	0.3	105	4 US-08-481-658B-65 Sequence 65, Appl
2	76.2	0.3	105	4 US-08-486-756A-65 Sequence 65, Appl
3	76.2	0.3	105	4 US-08-486-756A-65 Sequence 65, Appl
4	76.2	0.3	105	4 US-08-486-756A-65 Sequence 65, Appl
5	76.2	0.3	105	4 US-08-486-756A-65 Sequence 65, Appl
6	67	0.3	84	3 US-08-454-557C-91 Sequence 65, Appl
7	67	0.3	84	4 US-08-340-426D-91 Sequence 65, Appl
8	67	0.3	84	4 US-08-450-673C-91 Sequence 65, Appl
9	67	0.3	84	6 PCT-US95-1711A-91 Sequence 65, Appl
10	60.6	0.3	84	3 US-08-454-557C-91 Sequence 91, Appl
11	60.6	0.3	84	4 US-08-420-910 Sequence 91, Appl
12	60.6	0.3	84	4 US-08-450-673C-91 Sequence 91, Appl
13	60.6	0.3	84	6 PCT-US95-1711A-91 Sequence 91, Appl
14	58.8	0.3	78	3 US-08-450-673C-91 Sequence 70, Appl
15	58.8	0.3	78	4 US-08-340-426D-70 Sequence 70, Appl
16	58.8	0.3	78	4 US-08-450-673C-70 Sequence 70, Appl
17	58.8	0.3	78	4 US-08-450-673C-70 Sequence 70, Appl
18	57.6	0.3	85	3 US-08-454-557C-92 Sequence 92, Appl
19	57.6	0.3	85	4 US-08-340-426D-92 Sequence 92, Appl
20	57.6	0.3	85	4 US-08-450-673C-92 Sequence 92, Appl
21	57.6	0.3	85	6 PCT-US95-1711A-92 Sequence 92, Appl
22	54.8	0.2	105	4 US-08-481-658B-65 Sequence 65, Appl
23	54.8	0.2	105	4 US-08-477-504A-65 Sequence 65, Appl
24	54.8	0.2	105	4 US-08-486-756A-65 Sequence 65, Appl
25	54.8	0.2	105	4 US-08-483-862B-65 Sequence 65, Appl
26	54.8	0.2	105	5 US-08-739-65 Sequence 65, Appl
27	54.4	0.2	106	3 US-08-332-766A-36 Sequence 36, Appl

Pred. No. 19 is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

RESULT	SEQUENCE	COMPUTER	OPERATING SYSTEM	SOFTWARE	GENERAL INFORMATION
1	US-08-481-658B-65	FLOPPY disk	PC/DOS/MS-DOS	Patent No. 5955075	Patent No.: 5955075
		COMPUTER READABLE FORM:		APPLICANT: Zavada, Jan	APPLICANT: Zavada, Jan
		MEDIUM TYPE:		APPLICANT: Pastorekova, Silvia	APPLICANT: Pastorekova, Silvia
		COMPILER:		TITLE OF INVENTION: MN Gene and Protein	TITLE OF INVENTION: MN Gene and Protein
		OPERATING SYSTEM:		NUMBER OF SEQUENCES: 86	NUMBER OF SEQUENCES: 86
		CURRENT APPLICATION DATA:		CORRESPONDENCE ADDRESS:	CORRESPONDENCE ADDRESS:
		APPLICATION NUMBER: US/08/481-658B		ADDRESSEE: Leona L. Lauder	ADDRESSEE: Leona L. Lauder
		FILED DATE: 07-JUN-1995		STREET: 6 Mariposa Court	STREET: 6 Mariposa Court
		CLASSIFICATION: 424		CITY: Tiburon	CITY: Tiburon
		PRIOR APPLICATION DATA:		STATE: California	STATE: California
		APPLICATION NUMBER: US 08/260,190		COUNTRY: USA	COUNTRY: USA
		FILED DATE: 15-JUN-1994		ZIP: 94920	ZIP: 94920
		ATTORNEY/AGENT INFORMATION:			
		NAME: Laufer, Leona L.			
		REGISTRATION NUMBER: 30,863			
		REFERENCE/DOCKET NUMBER: D-0021.3E			
		TELECOMMUNICATION INFORMATION:			
		TELEPHONE: 415-435-2034			
		TELEFAX: 415-435-0727			
		INFORMATION FOR SEQ ID NO: 65:			
		SEQUENCE CHARACTERISTICS:			
		LENGTH: 105 base pairs			
		TYPE: nucleic acid			
		STRANDEDNESS: single			
		TOPOLOGY: linear			
		MOLECULE TYPE: DNA (genomic)			
		HYPOTHETICAL: NO			
		ANTI-SENSE: NO			
		US-08-481-658B-65			

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Best Local Similarity: 82.9%; Pred. No. 5.6e-07; Length: 105;

Matches 87; conservative 0; Mismatches 0; Gaps 0; Indels 0; Gaps 18; DB 10422 TTTTGTGATTAGTAGAGACGGGTTACCATGTCAGCAGGATGTCCTCGATCTC 10481  
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 Db 61 CTGACCTGATCCACCACTCGGCCTCCAAGTGCTGGAT 10526  
 Db 61 CTGACCTGATCCACCACTCGGCCTCCAAGTGCTGGAT 105

RESULT 2.  
 US-08-477-504A-65  
 Sequence 65, Application US/08477504A  
 Patent No. 597253  
 GENERAL INFORMATION:  
 APPLICANT: zavada, Jan  
 APPLICANT: Pastorekova, Silvia  
 TITLE OF INVENTION: MN Gene and Protein  
 NUMBER OF SEQUENCES: 86  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Leona L. Lauder  
 STREET: 6 Mariposa Court  
 CITY: Tiburon  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94920  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patienten Release #1.0, Version #1.30 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/477,504A  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/260,190  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3D  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-435-2034  
 TELEFAX: 415-435-0727  
 INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 US-08-477-504A-65

Query Match 0 3%; Score 76.2; DB 4; Length 105;  
 Best Local Similarity 82.9%; Pred. No. 5.6e-07;  
 Matches 87; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

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 QY 10482 CTGACCTGATCCACCACTCGGCCTCCAAGTGCTGGAT 105  
 Db 61 CTGACCTGATCCACCACTCGGCCTCCAAGTGCTGGAT 105

US-08-486-756A-65  
 ; Sequence 65, Application US/08486756A  
 ; Patent No. 5981711  
 GENERAL INFORMATION:  
 APPLICANT: Zavada, Jan  
 APPLICANT: Pastorekova, Silvia  
 APPLICANT: Pastorek, Jaronir  
 TITLE OF INVENTION: MN Gene and Protein  
 NUMBER OF SEQUENCES: 86  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Leona L. Lauer  
 STREET: 6 Mariposa Court  
 CITY: Tiburon  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94920  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/486,756A  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/260,190  
 FILING DATE: 15-JUN-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lauer, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3C  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-435-2034  
 TELEFAX: 415-435-0727  
 INFORMATION FOR SEQ ID NO: 65:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 US-08-486-756A-65

Query Match 0.3%; Score 76.2; DB 4; Length 105;  
 Best Local Similarity 82.9%; Pred. No. 5..6..0..7..;  
 Matches 87; Conservative 0; Mismatches 18; Indels 0; Gaps 0;  
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 Db 1 TTTCACATTTAGAGAGAACGGTTTACCATATGGCAGGCTCTCAAACTC 60  
 QY 10482 CTGACCTCGTGATCCGCCACCTGAGGCTCCAAAGCTCTGGAT 10526  
 Db 61 CTGACCTCTGATCCACCAAGCTCTGGCTCCAAAGCTCTGGAT 105

CITY: Triburon  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94920

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/485,862B  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/477,504  
 FILING DATE: 07-JUN-1995  
 APPLICATION NUMBER: US 08/260,190  
 FILING DATE: 15-JUN-1994

ATTORNEY/AGENT INFORMATION:

NAME: Lauder, Leona L.  
 REGISTRATION NUMBER: 30,863  
 REFERENCE/DOCKET NUMBER: D-0021.3D

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-435-2034  
 TELEFAX: 415-435-0727

INFORMATION FOR SEQ ID NO: 65:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO

US-08-485-862B-65

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Query Match 0.3%; Score 76.2; DB 4; Length 105;  
 Best Local Similarity 82.9%; Pred. No. 5e-07; Mismatches 18; Indels 0; Gaps 0;  
 Matches 87; Conservative 0; Mismatches 18;

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Qy 10482 CTGACCTCGATCCACASCTCGCTCCAAAGTGCGGGAT 10526  
 Db 61 CTGACCTTGATCCACASCTCGCTCCAAAGTGCGGGAT 105

RESULT 5  
 US-08-787-739-65

; Sequence 65, Application US/08787739

; Patent No. 6077887

GENERAL INFORMATION:

APPLICANT: Zavada, Jan  
 APPLICANT: Pastorekova, Silvia  
 TITLE OF INVENTION: MN Gene and Protein  
 NUMBER OF SEQUENCES: 96

CORRESPONDENCE ADDRESS:

ADDRESSEE: Leona L. Lauder  
 STREET: 369 Pine Street, Suite 610  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

US-08-852-495c-1\_copy\_213000\_235033.rni

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 Matches 87; Conservative 0; Mismatches 18;

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RESULT 6  
 US-08-454-557C-91

; Sequence 91, Application US/08454557C  
 ; Patent No. 5830670

; GENERAL INFORMATION:

APPLICANT: de la Monte, Suzanne  
 APPLICANT: Wandis, Jack R.  
 TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection  
 TITLE OF INVENTION: of Alzheimer's Disease  
 NUMBER OF SEQUENCES: 121

CORRESPONDENCE ADDRESS:

ADDRESSEE: Serne, Kessler, Goldstein & Fox P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3334

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/454,557C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REGISTRATION NUMBER: 36,203  
 REFERENCE/DOCKET NUMBER: 0609, 3840003  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 INFORMATION FOR SEQ ID NO: 91:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 ; us-08-454-557C-91

RESULT 7  
 US-08-340-426D-91  
 ; Sequence 91, Application US/08450673C  
 ; Patent No. 5248634  
 ; GENERAL INFORMATION:  
 APPLICANT: de la Monte, Suzanne  
 APPLICANT: Wands, Jack R.  
 TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection  
 NUMBER OF SEQUENCES: 121  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3934  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/450,673C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REGISTRATION NUMBER: 36,203  
 REFERENCE/DOCKET NUMBER: 0609, 3840004  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 TELEFAX: (202) 371-2240  
 INFORMATION FOR SEQ ID NO: 91:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 ; us-08-450-673C-91

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 Best Local Similarity 88.0%; Pred. No. 3.6e-05;  
 Matches 73; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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QY 10514 AAGTGCTGGATTACAGGNTG 10536  
 Db 61 AAGTGCTGGATTACAGGNTG 83

RESULT 8  
 US-08-450-673C-91  
 ; Sequence 91, Application US/08450673C  
 ; Patent No. 5248888  
 ; GENERAL INFORMATION:  
 APPLICANT: de la Monte, Suzanne  
 APPLICANT: Wands, Jack R.  
 TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection  
 NUMBER OF SEQUENCES: 121  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3934  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/450,673C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REGISTRATION NUMBER: 36,203  
 REFERENCE/DOCKET NUMBER: 0609, 3840004  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 TELEFAX: (202) 371-2240  
 INFORMATION FOR SEQ ID NO: 91:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 84 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 ; us-08-450-673C-91

Query Match 0.3%; Score 67; DB 4; Length 84;  
 Best Local Similarity 88.0%; Pred. No. 3.6e-05;  
 Matches 73; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 10454 CCATGTTAGCCAGGATGGTCTCGATCTCCGTGACCTGGCTCC 10513  
 Db 1 CCATGTTAGCCAGGATGGTCTCGATCTCCGTGACCTGGCTCC 60

QY 10514 AAGTGCTGGATTACAGGNTG 10536  
 Db 61 AAGTGCTGGATTACAGGNTG 83

RESULT 9  
PCT-US95-1711A-91  
Sequence 91 Application PC/TUUS951711A  
GENERAL INFORMATION:  
APPLICANT: de la Monte, Suzanne  
TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection of Alzheimer's Disease  
NUMBER OF SEQUENCES: 121  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Stern, Kessler, Goldstein & Fox P.L.L.C.  
STREET: 1100 New York Avenue, Suite 600  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005-3934  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/454, 557C  
FILING DATE: 30-MAY-1995  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Ludwig, Steven R.  
REGISTRATION NUMBER: 36, 203  
REFERENCE/DOCKET NUMBER: 0609. 3840003  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2540  
TELEFAX: (202) 371-2600  
INFORMATION FOR SEQ ID NO: 91:  
INFORMATION FOR SEQ ID NO: 91:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 84 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPLOGY: both  
SEQUENCE: character  
TYPE: nucleic acid  
LENGTH: 84 base pairs  
STRANDEDNESS: both  
PCT-US95-1711A-91  
PRINTER APPLICATION DATA:  
APPLICATION NUMBER: 08/340, 426  
FILING DATE: 14-NOV-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Ludwig, Steven R.  
REGISTRATION NUMBER: 36, 203  
REFERENCE/DOCKET NUMBER: 0609. 3840002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2540  
INFORMATION FOR SEQ ID NO: 91:  
INFORMATION FOR SEQ ID NO: 91:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 84 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPLOGY: both  
US-08-454-557C-91  
RESULT 10  
US-08-454-557C-91/C  
; Sequence 91, Application US/08/340426D  
; Patent No. 5944634  
GENERAL INFORMATION:  
APPLICANT: de la Monte, Suzanne  
APPLICANT: Wands, Jack R.  
TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection of Alzheimer's Disease  
NUMBER OF SEQUENCES: 121  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Stern, Kessler, Goldstein & Fox P.L.L.C.  
STREET: 1100 New York Avenue, Suite 600  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005-3934  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/340, 426D  
FILING DATE: 14-NOV-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Ludwig, Steven R.  
REGISTRATION NUMBER: 36, 203  
REFERENCE/DOCKET NUMBER: 0609. 3840002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2540  
TELEFAX: (202) 371-2540



STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20005-3334

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/454,557C  
 FILING DATE: 30-MAY-1995  
 CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:  
 NAME: Ludwig, Steven R.  
 REGISTRATION NUMBER: 36,203  
 REFERENCE/DOCKET NUMBER: 0609.3840003

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 TELEX/FAX: (202) 371-2540

INFORMATION FOR SEQ ID NO: 70:  
 LENGTH: 78 base Pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLogy: both

US-08-454-557C-70

Query Match 0.3%; Score 58.8; DB 3; Length 78;  
 Best Local Similarity 84.6%; Pred. No. 0\_0016; Indels 0; Gaps 0;  
 Matches 66; Conservative 0; Mismatches 12;

Qy 14672 ACCACGCGCTGGCTATAATTGTGATTCCTGGTAGAGACGGGGTTACCATTTGCCAGG 14731  
 Db 1 ACAAACGCCAGCTATAATTGTGATTCCTGGTAGAGACGGGGTTACCATTTGCCAGG 60

Qy 14732 CGGGTCPCGAACTCCGTA 14749  
 Db 61 CGGGTGTGCACTCTCGA 78

Search completed: June 17, 2000, 17:39:10  
 Job time: 276280 sec

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Query Match 0.3%; Score 58.8; DB 4; Length 78;  
 Best Local Similarity 84.6%; Pred. No. 0\_0016; Indels 0; Gaps 0;  
 Matches 66; Conservative 0; Mismatches 12;

Qy 14672 ACCACGCGCTGGCTATAATTGTGATTCCTGGTAGAGACGGGGTTACCATTTGCCAGG 14731  
 Db 1 ACAAACGCCAGCTATAATTGTGATTCCTGGTAGAGACGGGGTTACCATTTGCCAGG 60

Qy 14732 CGGGTCPCGAACTCCGTA 14749  
 Db 61 CGGGTGTGCACTCTCGA 78

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 371-2600  
 TELEX/FAX: (202) 371-2540  
 INFORMATION FOR SEQ ID NO: 70:  
 LENGTH: 78 base Pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLogy: both

US-08-454-557C-70

RESULT 15  
 US-08-340-426D-70

; Sequence 70, Application US/08340426D  
 ; Patent No. 5948634

; GENERAL INFORMATION:  
 ; APPLICANT: de la Monte, Suzanne  
 ; APPLICANT: Wandos, Jack R.  
 ; TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection  
 ; NUMBER OF SEQUENCES: 121

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Stern, Kessler, Goldstein & Fox P.L.L.C.  
 STREET: 1100 New York Avenue, Suite 600  
 CITY: Washington  
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 COUNTRY: U.S.A.  
 ZIP: 20005-3334

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/340,426D  
 FILING DATE: 14-NOV-1994  
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
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Wed Jun 21 14:43:49 2000

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